ORDER NO. BSD04050115
N00

Service Manual

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Sec. 2 Disassembly Procedure
Sec. 3 Electrical Adjustments
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Sec. 5 Schematic Diagrams
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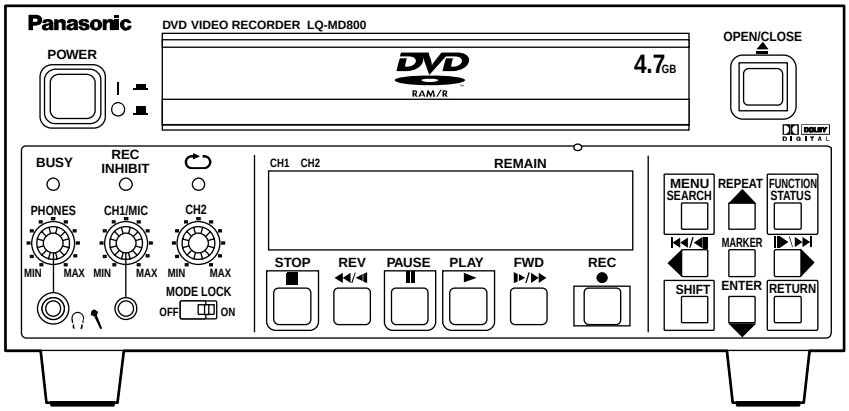
DVD Video Recorder

LQ-MD800P
LQ-MD800E



Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicans. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death.

Specifications

Power supply: AC 100 V–240 V, 50/60 Hz
Current consumption: 0.51 A–0.28 A

[ ] indicates safety information.

General

Recording System: DVD Video Recording Standards (DVD-RAM),
DVD Video Standards (DVD-R)

Recordable discs: DVD-RAM: 12 cm 4.7 GB
12 cm 9.4 GB
DVD-R: 12 cm 4.7 GB
(for General Ver.2.0)
DVD-R: 12 cm 4.7 GB
(for General Ver.2.0/4x-Speed
DVD-R Revision 1.0)

Recording Time: Maximum 4 hours (with 4.7 GB disc)
XP: Approx. 1 hour
SP: Approx. 2 hours
LP: Approx. 4 hours

Playable discs: DVD-RAM: 12 cm 4.7 GB
12 cm 9.4 GB
DVD-R: 12 cm 4.7 GB
(for General Ver.2.0)
DVD-R: 12 cm 4.7 GB
(for General Ver.2.0/4x-Speed
DVD-R Revision 1.0)

Dimensions: 8-7/16(W) x 4-1/32(H) x 14-3/8(D) inch
(214(W) x 102(H) x 365(D) mm)

Mass: 10.14lbs (4.6 kg)

Operating Temperature:
41 ˚F–104 ˚F (5 ˚C–40 ˚C)

Operating Humidity range:
10 %–80 % RH (no condensation)

Audio

Recording System: Dolby Digital 2ch,
Linear PCM 2ch (XP/SP mode)

Audio In (PHONO)**:** CH 1 / CH 2
Reference level
–10 dBv, 47 kΩ, unbalanced

MIC In (mini jack)**:** Reference level
–50 dBv, 3 kΩ, unbalanced

Audio Out (PHONO)**:** CH1 / CH2
Reference level
–10 dBv, 600 Ω, unbalanced

MONITOR Out (PHONO)**:**
Reference level
–10 dBv, 600 Ω, unbalanced

Headphones Out (Stereo mini jack)**:**
Reference level,
Maximum –28 dBv (variable),
8 Ω, unbalanced

Video

Video System: NTSC color signal, 525 Lines, 60 Fields
PAL color signal, 625 Lines, 50 Fields

Recording system: MPEG2 (Hybrid VBR)

Video In (BNC)**:** 1.0 Vp-p, 75 Ω, unbalanced

S-Video In (4P)**:** Y: 1.0 Vp-p, 75 Ω, unbalanced
(NTSC) C: 0.286 Vp-p (burst level), 75 Ω, unbalanced
(PAL) C: 0.3 Vp-p (burst level), 75 Ω, unbalanced

DV-Input (PAL/NTSC)**:**
IEEE1394 Standard, 4pin

Video Out (BNC)**:** 1.0 Vp-p, 75 Ω, unbalanced

S-Video Out (4P)**:** Y: 1.0 Vp-p, 75 Ω, unbalanced
(NTSC) C: 0.286 Vp-p (burst level), 75 Ω, unbalanced
(PAL) C: 0.3 Vp-p (burst level), 75 Ω, unbalanced

Component video output (BNC)
(NTSC 480P/480I) (PAL 576I)**:**
Y: 1.0 Vp-p, 75 Ω, unbalanced
P_B: 0.7 Vp-p, 75 Ω, unbalanced
P_R: 0.7 Vp-p, 75 Ω, unbalanced

Remote

USB (Type-B connector)**:**
USB Ver.1.1 (cable length: max. 3 m)

RS-232C (D-sub 9 pin)

PAUSE REMOTE (Stereo mini jack)

LASER Specification

Class 1 LASER Product

Wave Length: 779 nm–791 nm, 653 nm–662 nm

Laser Power: No hazardous radiation is emitted with the safety protection

Notes:
- Mass and dimensions shown are approximate.
- Specifications are subject to change without notice.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5M .

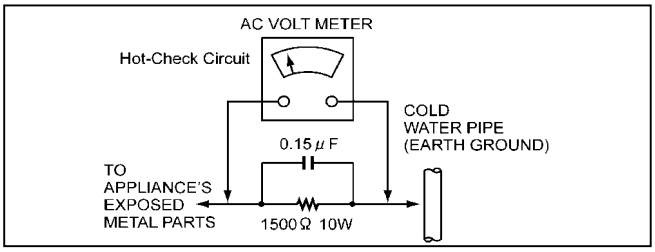


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15μF capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:
PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.
Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 20°F (370 10°C).
2. Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

NOTICE FOR MEDICAL USE

-This is an apparatus intended for recording and playing-back of diagnosis image classified as;
 *Protection against Electric Shock Class 1
 *Protection against ingress of Water Ordinary
 *Mode of Operation Continuous
 *Not suitable for use in the presence of a Flammable Anesthetic mixture with Air or with Oxygen or Nitrous Oxide
-Equipment connected to signal input and/or output parts must be certified according to the appropriate IEC 60601-1 and/or IEC 60601-1-1 harmonized national standard. Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Everybody who connects additional equipment to the signal input parts, or signal output parts configured a medical system, and is therefore responsible that the system complies with the equipments of the standard IEC 60601-1-1.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as “anti-static” can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

Lithium Battery

Warning

The lithium battery in this equipment must only be replaced by qualified personnel.

The lithium battery is a critical component (type number CR2032U/B manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge. It must therefore only be fitted in equipment designed specifically for its use.

Replacement battery/batteries must be of the same type and manufacturer. They must be fitted in the same manner and location as the original battery, with the correct polarity connection observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose. It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL

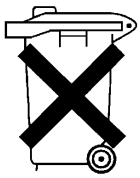
Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

VAROITUS

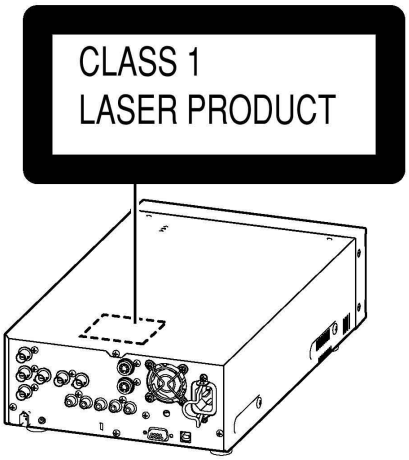
Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyypiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

Attention

A battery is used for memory backup in the unit. When the battery is exchanged, you should not throw it away, but dispose of it as chemical waste.



NOTICE FOR LASER



Inside of unit

DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	- AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意	- 打开时有可见及不可见激光辐射。避免激光束照射。
注 意	- ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。

Panasonic

HCD0405NYND344

SECTION 1

SERVICE INFORMATION

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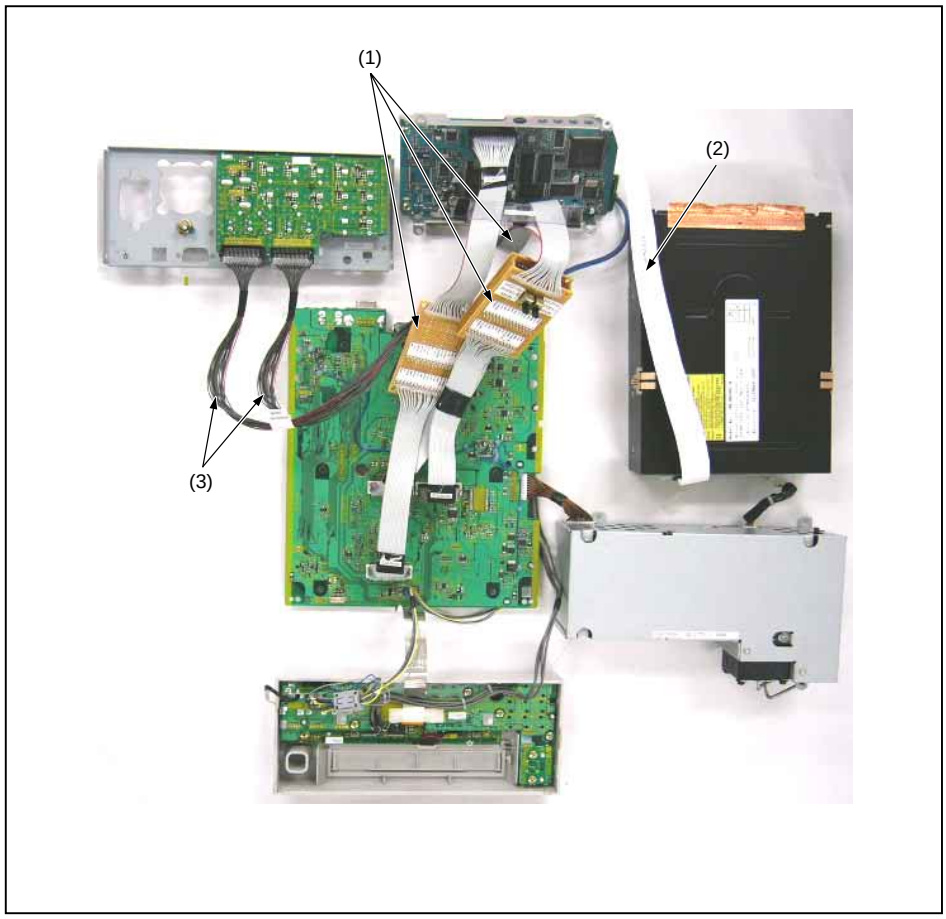
1. SERVICING FIXTURES AND TOOLS

1-1. Extension Cable for service position

Using the following Extension Cables, place the unit as shown for check and service.
Extension Cable (No.1-No.3) are used for improving serviceability. (Used only for servicing.)

No	Parts No.	NAME	CONNECTION
1	RFKZ0164	30Pin x3 Extension Cable	P9001,P9002,P9003 on Main C.B.A.-P6204,P6205,P6206 on Digital C.B.A.
2	RFKZ0125	40Pin Extension FFC	P3401 on Digital C.B.A.-P2003 on Drive connection
3	RFKZ0165	20Pin Extension Cable	P6201 on Main C.B.A.-P4801 on Rear jack C.B.A.
			P6202 on Main C.B.A.-P4801 on Rear jack C.B.A.



2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance service in order to maintain the functions in the best condition, so that the user can use the equipment safely. LQ-MD800 has parts that wear and their wear and deterioration may impair operation. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

2-1. Maintenance Chart

The following periodic maintenance is required to maintain product in good condition

No.	Part Name	Part No.	Replacement	Remark
1	DVD RAM Drive	RD-DKL002-M	Every 3000 hours	
2	Fan motor	L6FAHCBH0003	Every 10000 hours	
3	Lithium battery	CR2032	About 3 Years	

Note:
Replacement hours are recommendation only. Actual hours will depend on temperature, humidity or dust.
Replacement hours are listed as the reference of maintenance. They do not mean guarateed hours.
HOUR METER can be reset by service mode (Refer to item in section 2.)

Make sure to order replacement parts listed in service manual only.

3. EMERGENCY EJECT

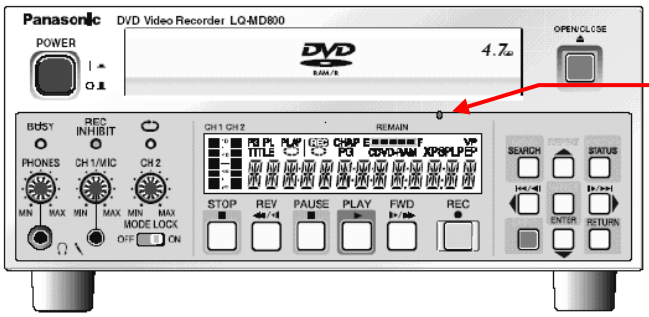
When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit by using the following method.

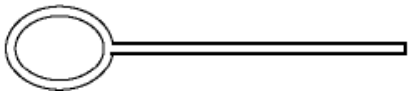
1. Method by the operation button

1. Press [SHIFT] and [OPEN/CLOSE] together for 5 seconds to open the tray.
   NOTE: After ejecting the disc, turn the unit off and then turn it on again.

2. Method by manually

1. Make sure the unit is OFF.
2. Insert the included emergency eject pin into the emergency ejection hole, pushing horizontally 4 or 5 times. (Turn the gear with an emergency eject pin.)
3. When the shutter opens and the tray comes out remove the pin.
4. Pull the tray out horizontally.
   NOTE: To restore the tray, turn the unit on and press [OPEN/CLOSE].



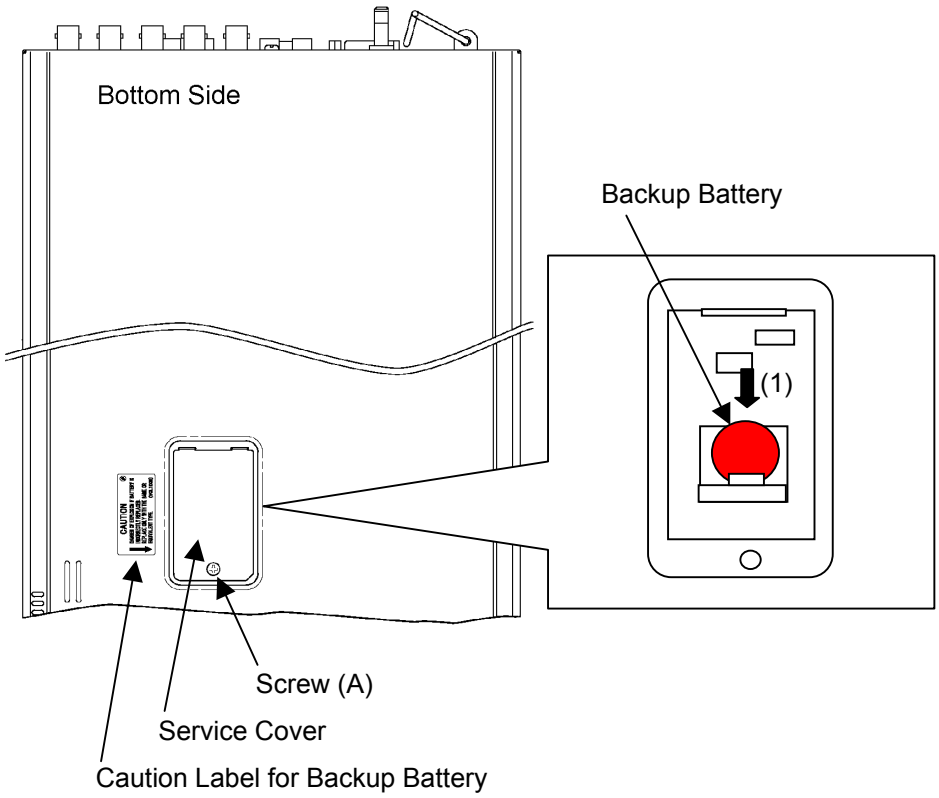


Eject pin
(Part number:JZS0484)

4. LITHIUM BATTERY

4-1. Replacement Procedure

1. Unscrew the screw (A) on the bottom cover so that the service cover can be lifted up.
2. While pushing the Lithum battery " Ref No.: U6651 / Part No.: CR2032 " in direction of arrow (1), pulling up it with the finger.
3. Replace the new battery in the direction (+down) and close the service cover in the reverse order.



NOTE:
The battery replacement must be completed within 3 seconds, if not, the timer setting may be reset. In this case, readjust the timer again.

NOTE:
The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacture's instructions.

5. SERVICE MENU

5-1. SERVICE MODE

The machine has a service mode which makes it possible to perform trouble diagnosis, signal control, and so on.

<Service mode setting >

1. While stop mode, press the “RETURN”,”OPEN/CLOSE”, and “STOP” button simultaneously for five seconds.(The display in the FL display disappears.)
2. About 20 seconds later, “SERVICE MODE” appears in the FL display and service mode boots up.
3. When setting the “MODE LOCK” switch to ON, the operation button performs as the ten key.
   (When setting the “MODE LOCK” switch to OFF, the operation button performs as the operation key.)
4. Executes service mode by inputting 2 digits of figures.

<Ten key correspondence button >

[REC]	[0]	▶	[6]
[SHIFT]	[1]	[SEARCH]	[7]
▼	[2]	▲	[8]
[RETURN]	[3]	[STATUS]	[9]
◀	[4]	[STOP]	[RETURN]
[ENTER]	[5]		

<Service mode cancelling >

1. Setting the “MODE LOCK” switch to OFF.
2. Press the “SHIFT and “stop” button simultaneously for five seconds. (The display in the FL display disappears.)
3. About 20 seconds later it reboots automatically by normal mode.

<Service mode >

Item		FL display	Key operation
Mode Name	**Description**		
Clear item	Clears the service mode to be executing	*SERVICE MODE*	[0][0] while in service mode
Error code display	FL display of the last error code.	*F00*	[0][1] while in service mode
ROM version display	The version of each microprocessor is displayed.	*REGION* ****** (NOT USED) *MAIN* ****** (DIGITAL ucom) *TIMER* ****** (NOT USED) *DRIVE* ****** (DVD DRIVE) *ROM* ****** (FRONT ucom)	[0][2] while in service mode
White picture output	White picture output from AV decoder White picture (Chroma : 100%) Switching enabled by sub command “I/P switching”	*WITH I*	[1][1] while in service mode
		WITH P	[0][0] while in white picture mode. *I-P toggle switched

Item		FL display	Key operation
Mode Name	Description		
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma : 100%) Switching enabled by sub command “I/P switching”	MAGE I	[1][2] while in service mode
		MAGE I	[1][4] while in white picture mode. *I-P toggle switched
RTSC return XP (A&V)	Disk recording of input Encoded and decoded for external output without playback. REC mode is XP.	EE2 I XP 48	[1][3] while in service mode
		EE2 PXP 48	[1][4] while in RTSC return XP mode *I-P toggle switched
		EE2 I XP 44	[2][4] while in RTSC return XP mode *48k-44.1k toggle switched
I/P switching	“Interlace” and ”Progressive” are switched. Initial setting is “Interlace”.	SERVICE I SERVICE P	[1][4] while in service mode
Audio mute	Check whether mute is applied normally by Front microprcessor.	MAIN MUTE	[2][1] while in service mode
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB)	AUDIO 48	[2][2] while in service mode
		AUDIO 44	[2][4] while in service mode
Laser use time display	To check laser use time of drive	LASER *****	[4][1] while in service mode
Drive last error display	Drive unit error code display.	** **** ** ** **	[4][2] while in service mode
Laser error count	The number of times that a laser error has occurred due to a defective disc or defective drive is counted and displayed.	LASERERR **	[4][3] while in service mode
Factors which cause drive error	The disc condition is displayed when an error occures.	INFO ******	[4][4] while in service mode
Disc manufacture ID	Display the manufacture’s ID for a disc on which a drive error has occurred.	**********	[4][5] while in service mode
Tray OPEN/CLOSE	The drive tray is opened and closed repeatedly	CYCLE ****	[9][1] while in service mode
Error code initialization	Initializes the error code which is memorized last at the memory.	ERROR INT	[9][8] while in service mode

5-2. HOUR METER Information Display

1. Press the “SHIFT”,”PAUSE”,”PLAY” and “FWD” button simultaneously and hold for five seconds.(The display in the FL display disappears.)
2. The display switches each hour information every time press “▼ “or” ▲ “ button.
3. When the “SHIFT”,”PAUSE”,”PLAY” and “FWD” button press again, it returns to normal mode.

FL display	Information	Description
TV	NTSC/PAL	Display the TV SYSTEM.
OPR	******H	Display the operation time.
SPIN	******H	Display the Spindle motor drive time.
LASER	******H	Display the laser irradiation time.
REC	******H	Display the recording time.
PLAY	******H	Display the Spindle playing time.
TRAY	******	Display the number of times opening and closing of the tray.
1394	MDVS/OLY	Display the 1394 command mode.

5-2-1. How to reset Hour Meter

By using EVR adjustment software, the time information except the operation time can be reset.
For the procedure to set the EVR adjustment software, refer to the item of the electrical adjustment.

Reset the following command by inputting it to the “TX Date” in the EVR adjustment software.

Input command **$LH:DRT**

6. SOFTWARE

6-1. Software Version Display

1. Press the ”SHIFT”,”STOP”,”REV” and ”PAUSE” button simultaneously for five seconds. Version display can be displayed.
2. The alternate indication of the version number of DIGITAL and FRONT microprocessor, while continuing to press the button.

Display	Name	Board
D ***-******	DIGITAL microprocessor	DIGITAL C.B.A.
F ***-******	FRONT microprocessor	MAIN C.B.A.

6-2. Version Upgrade Method

6-2-1. DIGITAL Microprocessor Version Upgrade

The microprocessor on the DIGITAL circuit board has built-in flash memory. Upgrade the software version according to the following procedure.

A. Preparation

CD-ROM for version upgrade: VFK

B. Version upgrade procedure

1. Turn on the power and insert the upgrade disk in the tray.
2. It starts upgrade processing automatically.
3. When the upgrading completes, because tray opens automatically, remove the CD-ROM for version upgrade.
4. **Press the “SHIFT” and ”STOP” button simultaneously for five seconds.** (Reboots automatically by normal mode.)

6-2-1. FRONT Microprocessor Version Upgrade

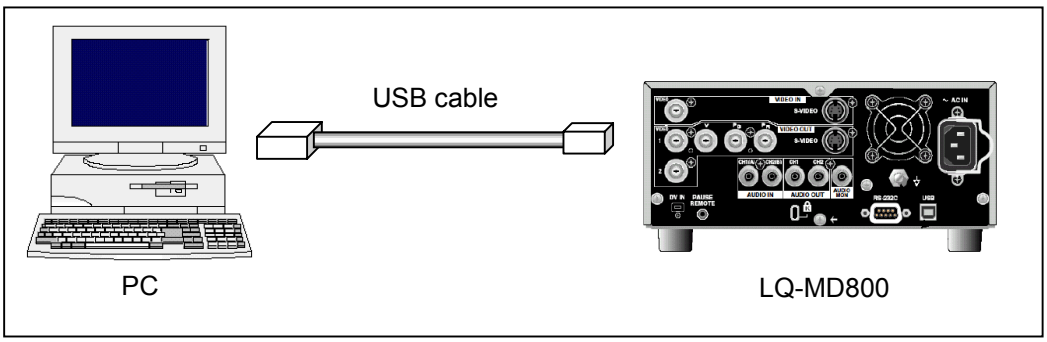
The microprocessor on the FRONT circuit board has built-in flash memory. Version upgrade the software according to the following procedure.

A. Preparation

ITEM	REMARK
USB cable	AB Type
Version Upgrade Software	USB Flash Writer GUI:Flash-over-USB Ver.2.03(1.69MB) (Please access to http://www.renesas.com/eng/products/mpumcu/16bit/m16c/m3a0665/0665e.htm)
File NAME	mof File (Included in “vvvsi xxxx” file).
Personal Computer	WINDOWS 98SE / ME / 2000 / XP

B. Connection

1. Connect the USB Cable between USB terminal on the LQ-MD800 and Personal Computer (USB port).
2. Remove the service cover and set the DIP SW6302-3 to on.
3. Turn on this model and Personal Computer (Windows mode).



C. Boot up the Ver. up Software and Ver. up Procedure

1. From the Start menu, choose Programs -- Renesas-Tools -- Flash-over-USB V. *. ** to start the FoUSB. When the FoUSB starts, the dialog box shown in Figure 6-1 appears.

Fig.6-1 Main window

2. When you press the “Select MCU” button, the window shown in Figure 6-2 is displayed. Select “M16c20 Series” – “M30245FC” and click “OK” button.

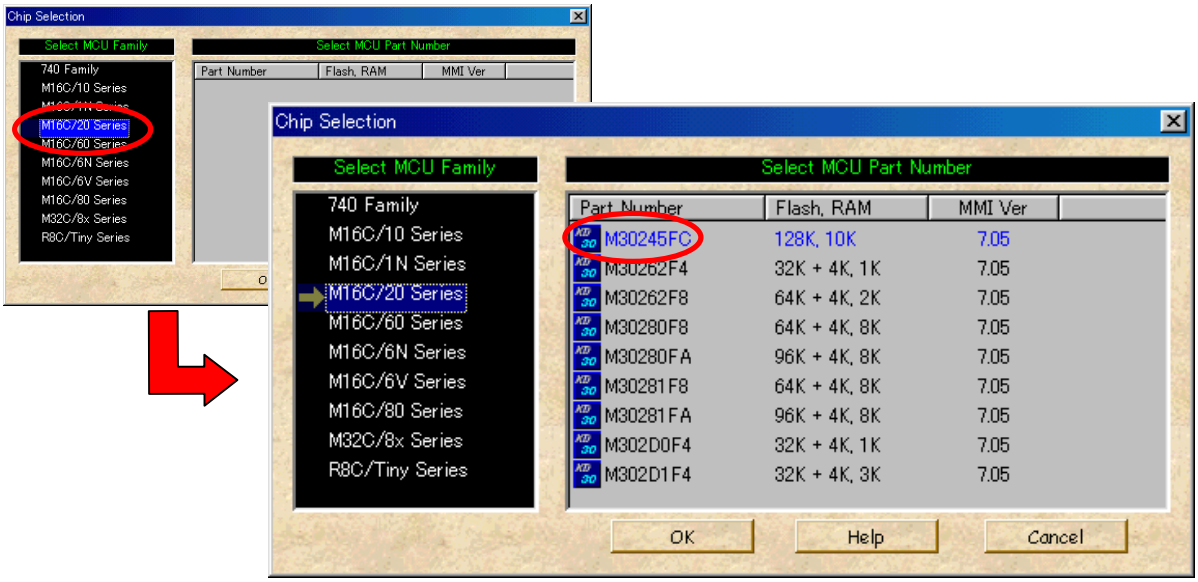


Fig.6-2

3. The ID cord is automatically read in, the message shown in Figure 6-3 is displayed. Press the “OK” button.

ID code
A file has been loaded that will create an ID Code of
FF FF FF FF FF FF FF
on the current attached device. Please make note of this!
OK

Fig.6-3

4. On the Main window, press the “OPEN2 button, and the window shown in Fig.6-4 will appear.
5. Select the floppy drive and then select the **“mot format file”** and then press the **“Open”** button.

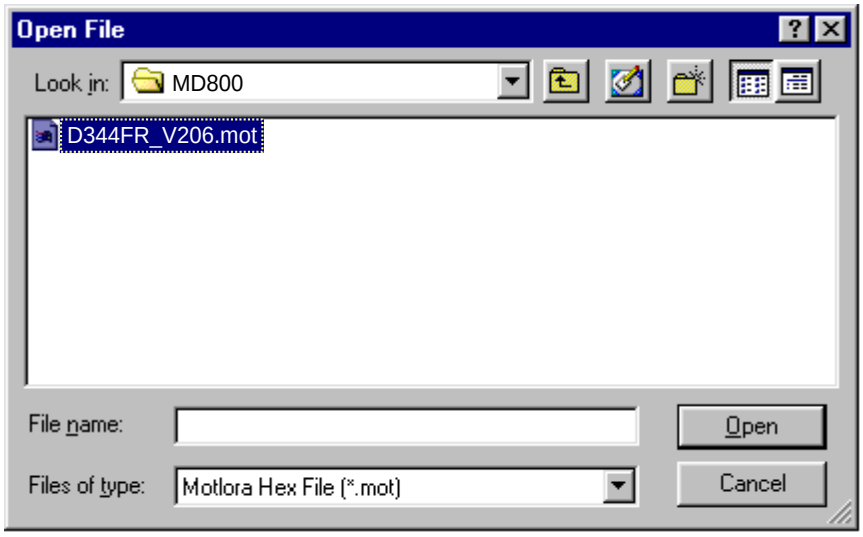


Fig.6-4

6. On the Main window, press the “OPEN button, press the “PROGRAM” button, and the window shown in Fig.6-5 will appear.
7. Select the “Erase -> Program -> Verify” and “Erase Only Needed Blocks” button and click the “Program” button, so program starts.

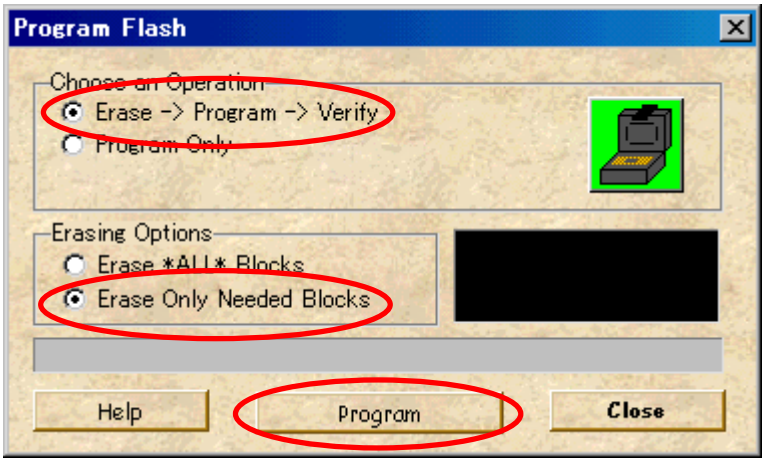


Fig.6-5

8. When the program has finished writing the software, the window shown in Fig.6-6 is displayed. So press the “OK” button.

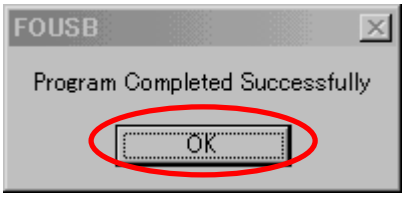
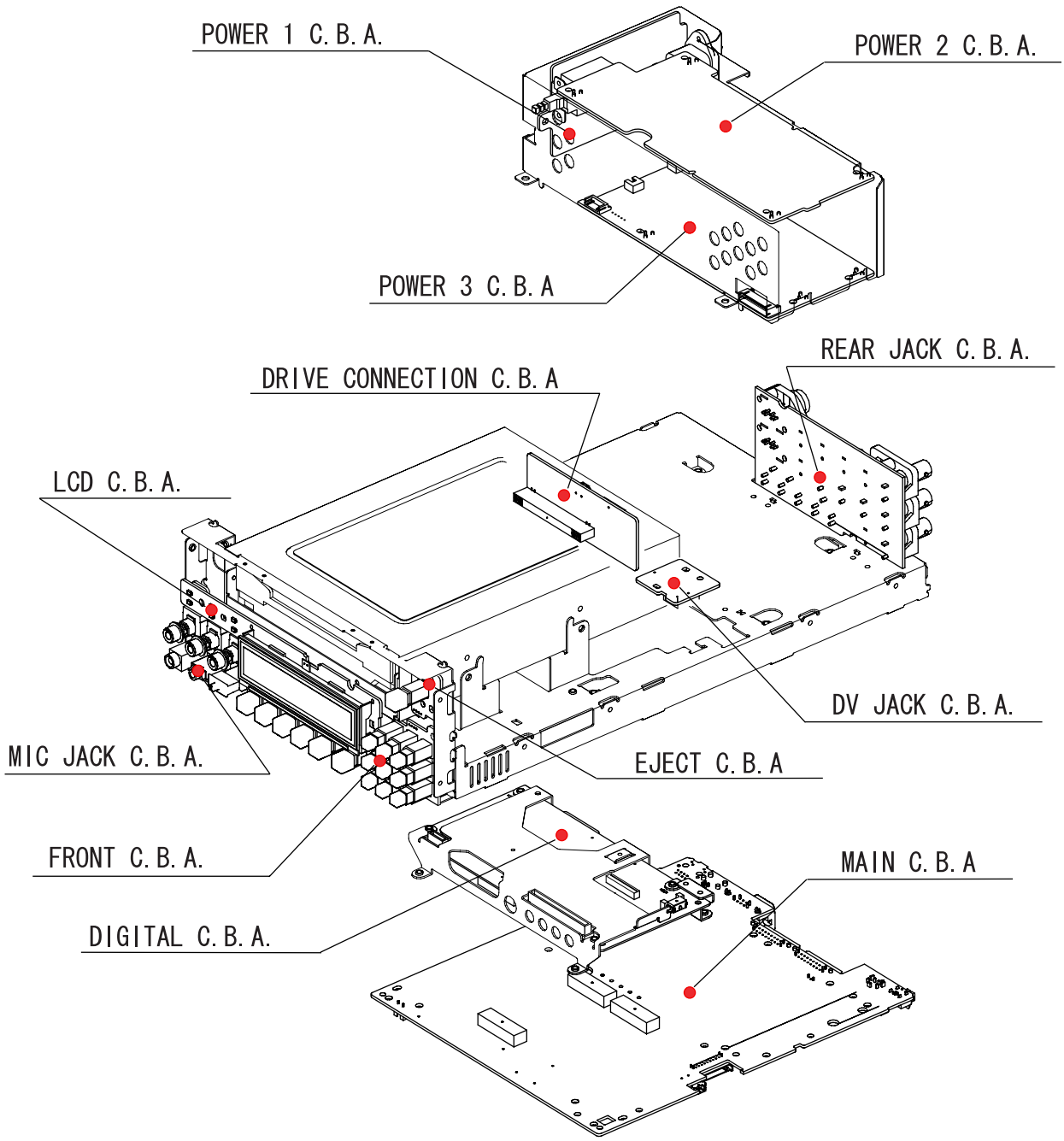


Fig.6-6

9. Turn the power off and set the DIP SW6302-3 to off

7. CIRCUIT BOARD LAYOUT



SECTION 2

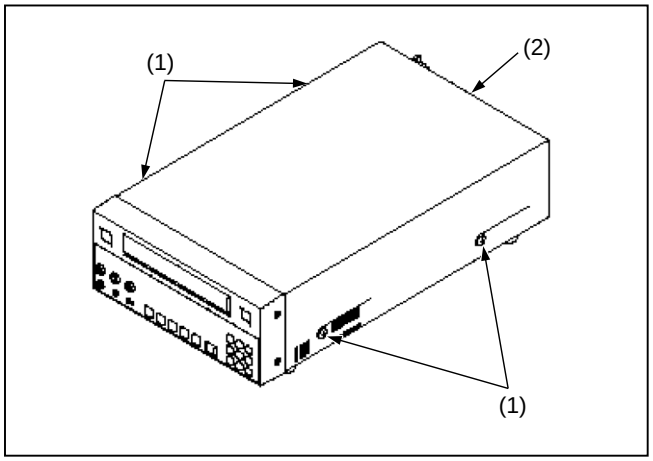
DISASSEMBLY PROCEDURE

CONTENTS

1. Removal of Top Panel DIS-1
2. Removal of Bottom Case DIS-1
3. Removal of Front Panel DIS-1
4. Removal of Rear jack plate DIS-1
5. Removal of Power unit DIS-2
6. Removal of Drive unit DIS-2
7. Removal of Main P.C. Board and Digital P.C. Board DIS-2
8. Removal of Digital P.C. Board DIS-3

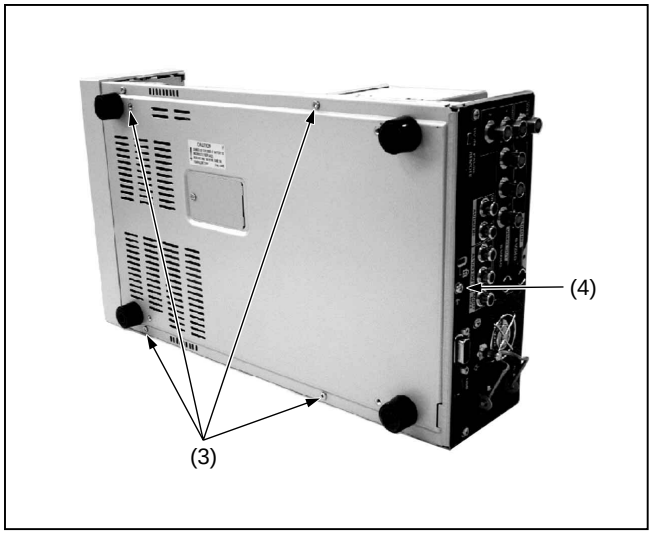
1. Removal of Top Panel

1. Unscrew the 5 screws (1) and (2).
2. Remove the top panel while lifting the rear part of it.



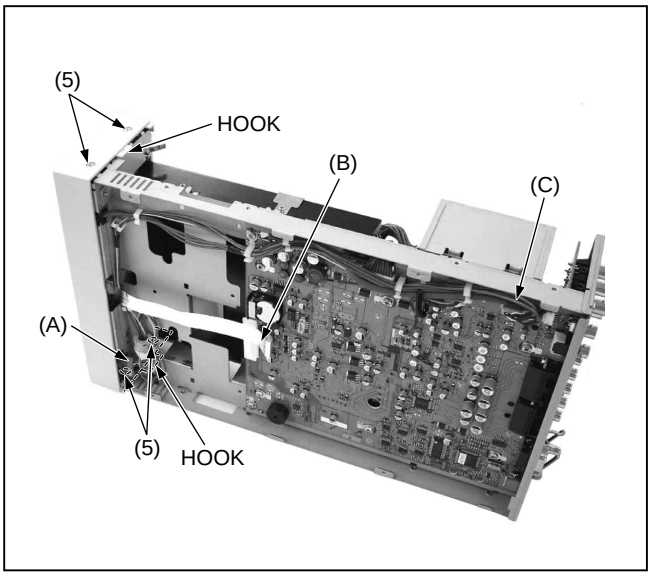
2. Removal of Bottom Case

1. Remove the top panel.
2. Unscrew the 5 screws (3) and (4).
3. Remove the bottom cover while lifting the front part of it.



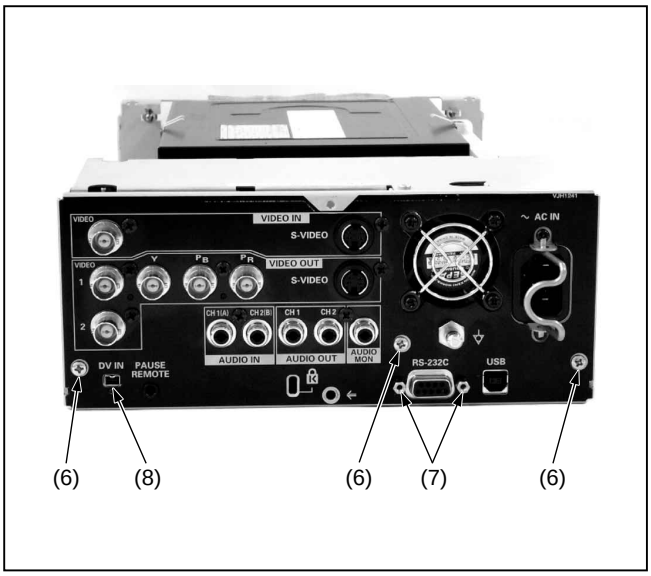
3. Removal of Front Panel

1. Remove the top panel and bottom case.
2. Unscrew the 4 screws (5)
3. Disconnect the 3 connectors (A),(B) and (C).
4. Remove the front panel while releasing the two hooks.



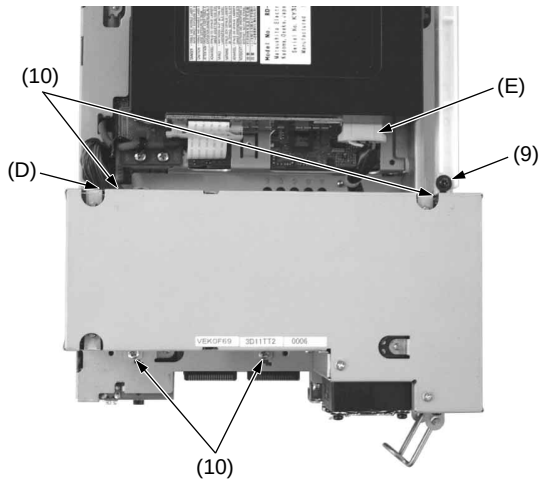
4. Removal of Rear jack plate

1. Remove the top panel and bottom case.
2. Unscrew the 6 screws (6), (7) and (8).
3. Remove the rear jack plate. Be careful because the MAIN P.C.Board and the connector in the rear jack P.C.Board are combined.



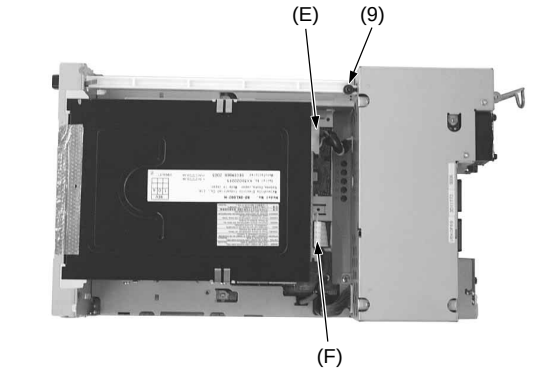
5. Removal of Power unit

1. Remove the top panel, bottom case and rear jack plate.
2. Unscrew a screw (9) and remove the power rod.
3. Unscrew the 4 screws (10).
4. Disconnect the 2connectors (D) and (E).
5. Remove the power unit.

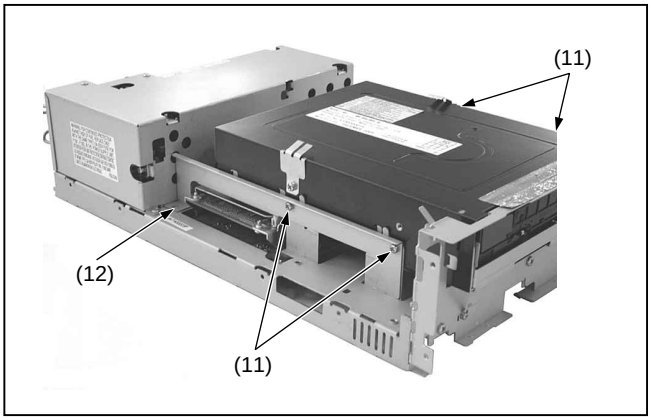


6. Removal of Drive unit

1. Remove the top panel, bottom case and front panel.
2. Loosen a screw (9) and remove the power rod.
3. Disconnect the 2 connectors (E) and (F).

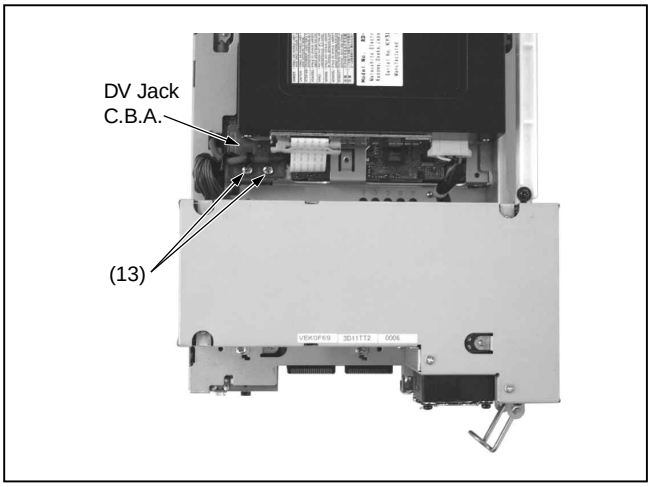


4. Unscrew the 5 screws (11) and (12) with support angle.
5. Peel off the shielding tape.
6. Remove the drive unit while lifting the rear part of it.

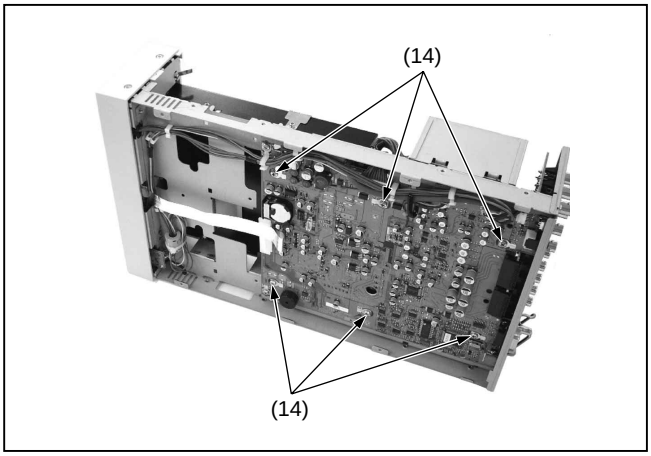


7. Removal of Main C.B.A. and Digital C.B.A..

1. Remove the top panel, bottom case and rear jack plate.
2. Unscrew the 2screws (13) and remove the DV jack C.B.A.



3. Unscrew the 6 screws (14) and remove the MAIN P.C.Board and DIGITAL P.C.Board.

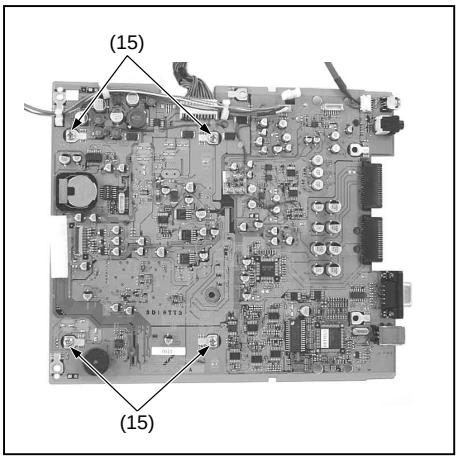


8. Removal of Digital P.C.Board

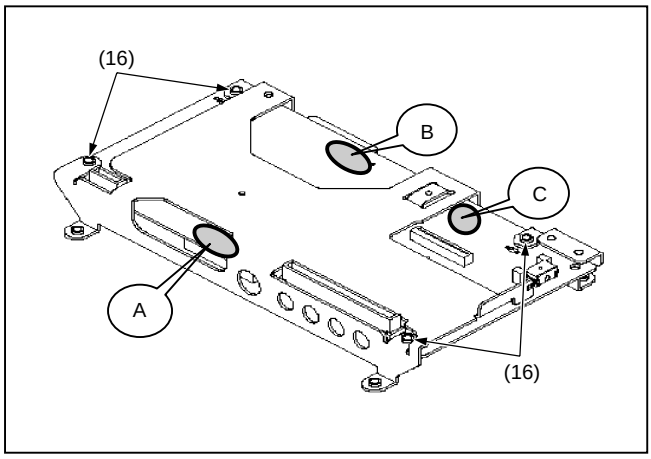
Use extreme care not to deform when removing or replacing the Digital P.C.Board.

<Disassembly procedure>

1. Remove the MAIN P.C.Board and DIGITAL P.C.Board.
2. Unscrew the 4 screws (15).



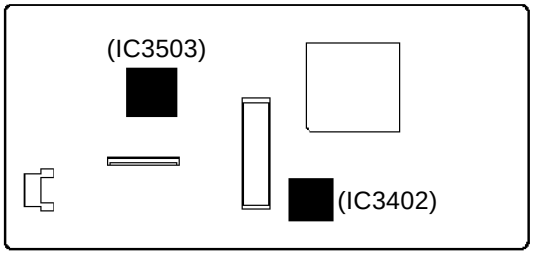
3. Lift the portion A on the Digital P.C.Board.
4. Lift the portion B and C on the Digital P.C.Board at the same time to remove.
5. Unscrew the 4 screws (16) and remove the angle.



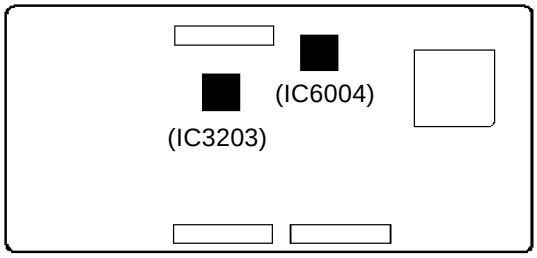
<Reassembly procedure>

1. Install the angle by 4 screws (16).
2. Press the portion A on the Digital P.C.Board.
3. Press the portion B and C on the Digital P.C.Board at the same time .

Note:
Do not touch the CSP(IC3402,IC3503,IC6004,IC3203) during servicing.



(FOIL SIDE)



(COMPONENT SIDE)

SECTION 3

ELECTRICAL ADJUSTMENTS

CONTENTS

1. EVR ADJUSTMENT PROCEDURE ELE-1

1-1. PREPARATION. ELE-1

1-2. The connection and the communication setting procedure. ELE-1

1-3. The start-up of the EVR adjustment software. ELE-2

2. ADJUSTMENT ELE-3

2-1. EE Y OUT Level Adjustment ELE-3

2-2. EE C OUT Level Adjustment ELE-3

2-3. Component Y Level Adjustment ELE-3

2-4. Pb Level Adjustment ELE-3

2-5. Composite Frequency Characteristic Adjustment ELE-4

2-6. Component Frequency Characteristic Adjustment ELE-4

2-7. Composite Y/C Signal Timing Adjustment ELE-4

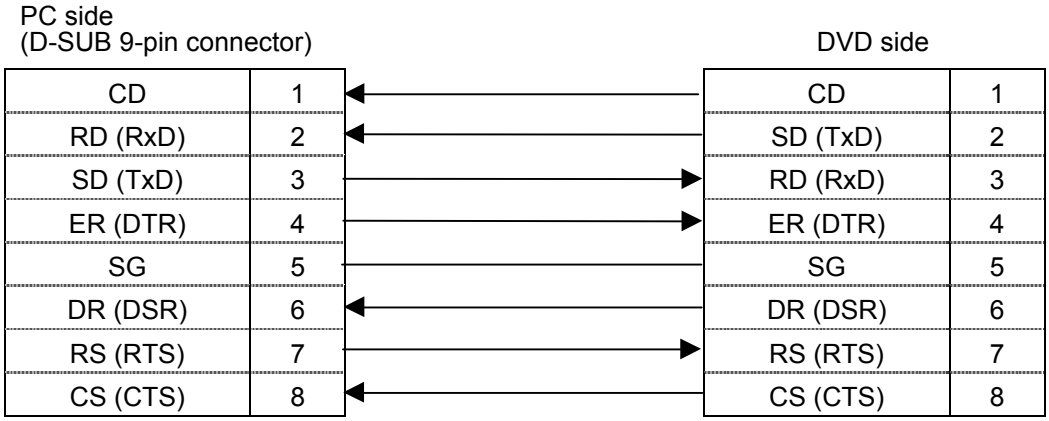
1. EVR ADJUSTMENT PROCEDURE

1-1. PREPARATION

Adjust the Electrical Adjustment using EVR adjustment software (VFK1912).
Adjust by the following procedure.

Items required for EVR adjustment

EVR adjustment software …….. VFK1912
Personal computer compatible with Windows
RS-232C cable (D-SUB 9-pin straight cable)

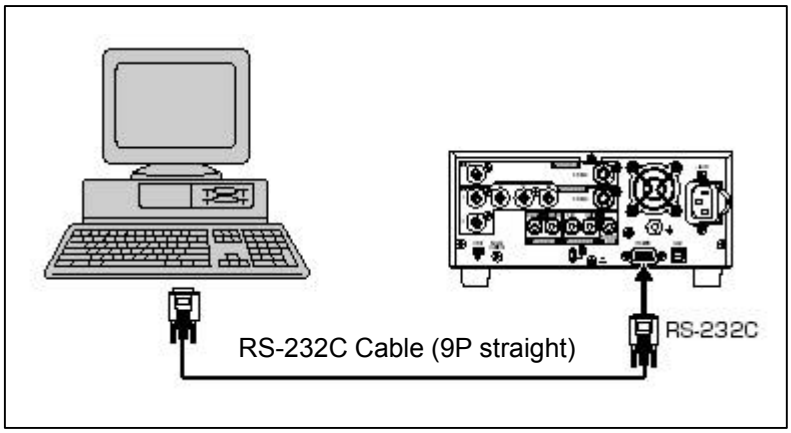


1-2. The connection and the communication setting procedure

1. Set the communication setting for the RS-232C as follow.

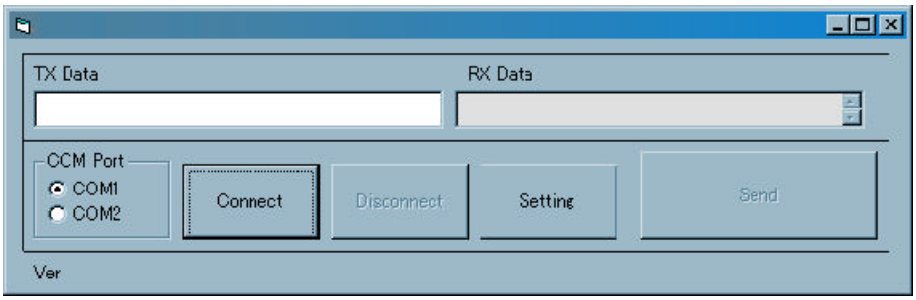
Baud Rate	9600
Bit Length	8 bit
Stop bit	1 bit
Party	None
Protocol	DVD

2. Turn off the power for the LQ-M800 and personal computer.
   Connect the RS-232C terminal on the LQ-MD800 and COM1 port on personal computer by RS-232C cable.
3. Turn on the power for the LQ-M800 and personal computer.

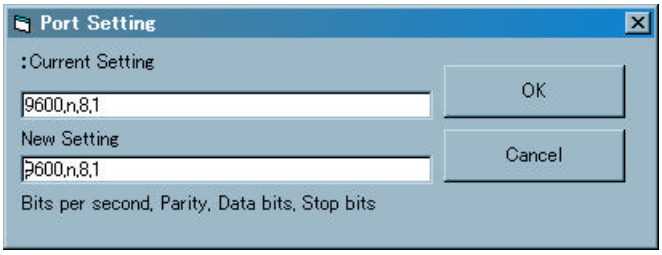


1-3. The start-up of the EVR adjustment software

1. Copy downloaded EVR adjustment software into the personal computer.
2. Execute the MD800EVR.exe so that the following screen appears.



3. Press the “Setting” button so that the following appears.
4. Select “New Setting” and input “9600,n,8,1”, and click “OK”.



5. Input command [$VA : C : “command” : “parameter”] of each adjustment in “TX Date” box, and click “OK”.
6. Adjustment value changes by changing a parameter.

<Example>

2-1. EE Y OUT Level Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CSY PARAMETER : C8 ~ 00 ~ 38
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	EE
M.EQ	Oscilloscope
SPEC.	Y=1.0 ± 0.02Vp-p

1).Input “$VA:C:CSY:00” and click “OK”.

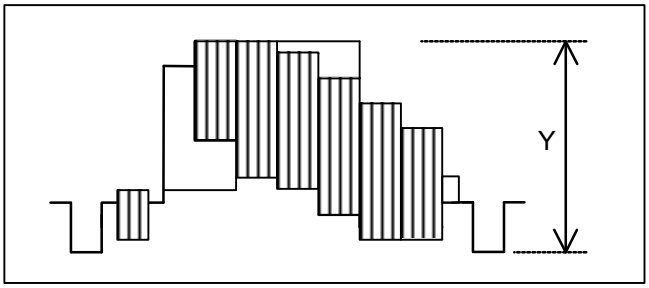
2).Change a parameter between “C8” and “38”.

2. ADJUSTMENT

2-1. EE Y OUT Level Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CSY PARAMETER : C8 ~ 00 ~ 38
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	EE
M.EQ	Oscilloscope
SPEC.	Y=1.0 ± 0.02Vp-p

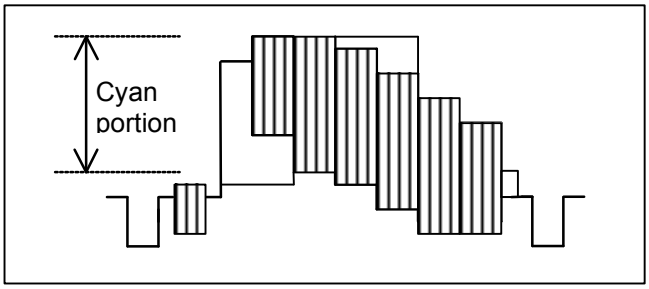
1. Set the input select to V (Video).
2. Adjust with EVR software so that the Y level is within specification.



2-2. EE C OUT Level Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CRM PARAMETER : B8 ~ 00 ~ 48
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	EE
M.EQ	Oscilloscope
SPEC.	NTSC : C = 0.63 ± 0.03Vp-p PAL : C = 0.88 ± 0.04Vp-p

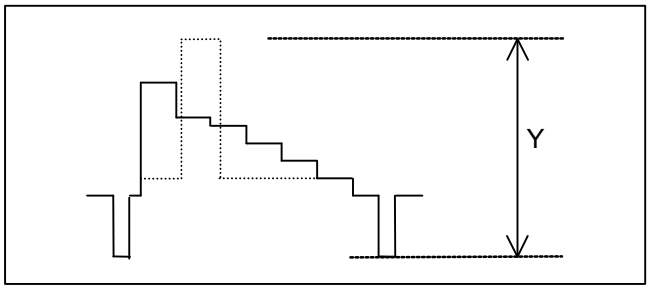
1. Set the input select to V (Video).
2. Adjust with EVR software so that the Cyan portion of C level is within specification.



2-3. Component Y Level Adjustment

BOARD	MAIN C.B.A.
TP	Y OUT
ADJ.	Remote operation by RS-232C control COMMAND : CNY PARAMETER : C8 ~ 00 ~ 38
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	Y =1.0 ± 0.02Vp-p

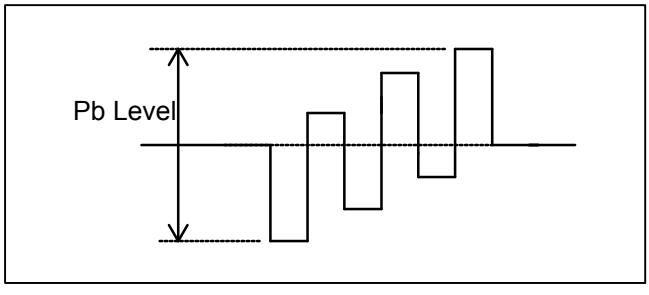
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the Y level is within specification.



2-4. Pb Level Adjustment

BOARD	MAIN C.B.A.
TP	Pb OUT
ADJ.	Remote operation by RS-232C control COMMAND : CBR PARAMETER : B8 ~ 00 ~ 48
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	NTSC : Pb Level =0.486 ± 0.025Vp-p PAL : Pb Level =0.7 ± 0.035Vp-p

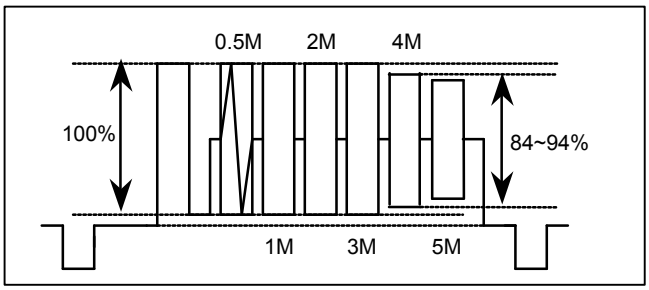
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the Pb level is within specification.



2-5. Composite Frequency Characteristic Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CSF PARAMETER : FB ~ 00 ~ 05
SIGNAL	60IRE MULTI BURST SIGNAL or MULTIBURST SIGNAL or VIDEO SWEEP
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	4MHz portion : -1.0 ± 0.5dB of the 100kHz portion

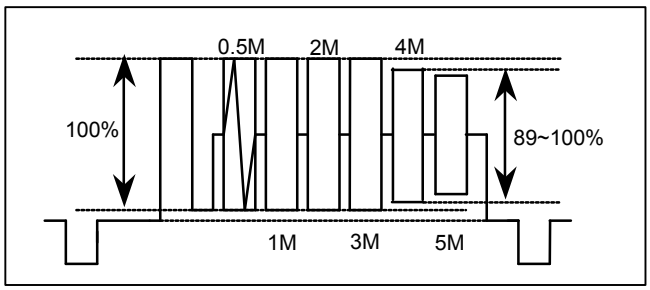
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the 4MHz portion is within specification.



2-6. Component Frequency Characteristic Adjustment

BOARD	MAIN C.B.A.
TP	Y OUT
ADJ.	Remote operation by RS-232C control COMMAND : CNF PARAMETER : FB ~ 00 ~ 05
SIGNAL	60IRE MULTI BURST SIGNAL or MULTIBURST SIGNAL or VIDEO SWEEP
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	4MHz portion : -0.5 ± 0.5dB of the 100kHz portion

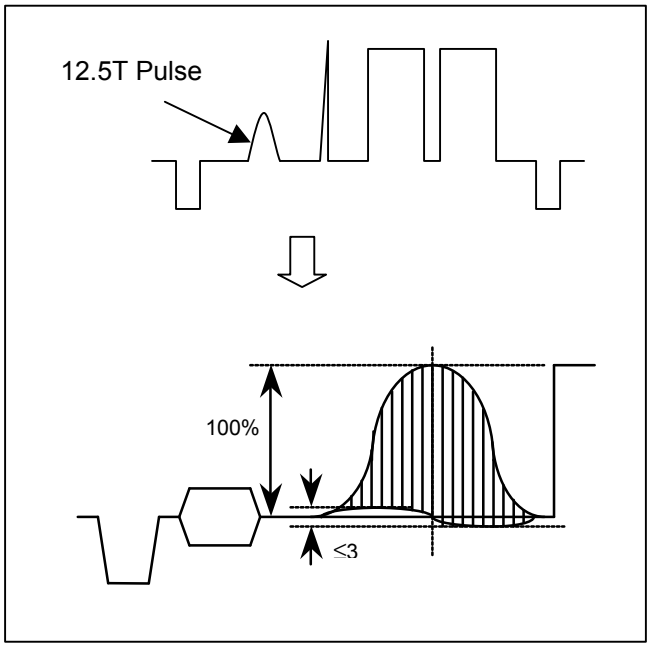
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the 4MHz portion is within specification.



2-7. Composite Y/C Signal Timing Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : YCT PARAMETER : FD ~ 00 ~ 03
SIGNAL	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	SELF-REC/PLAY (XP mode)
M. EQ	Oscilloscope
SPEC.	Y,C Timing : 0 ± 50nsec C Level ≤ 3% of the Y Level

1. Confirm that the 12.5T modulation signal portion of Composite VIDEO OUT is displayed correctly on the Oscilloscope as shown in figure.
2. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
3. Adjust Y/C timing and C level so that they are within specification.



SECTION 4

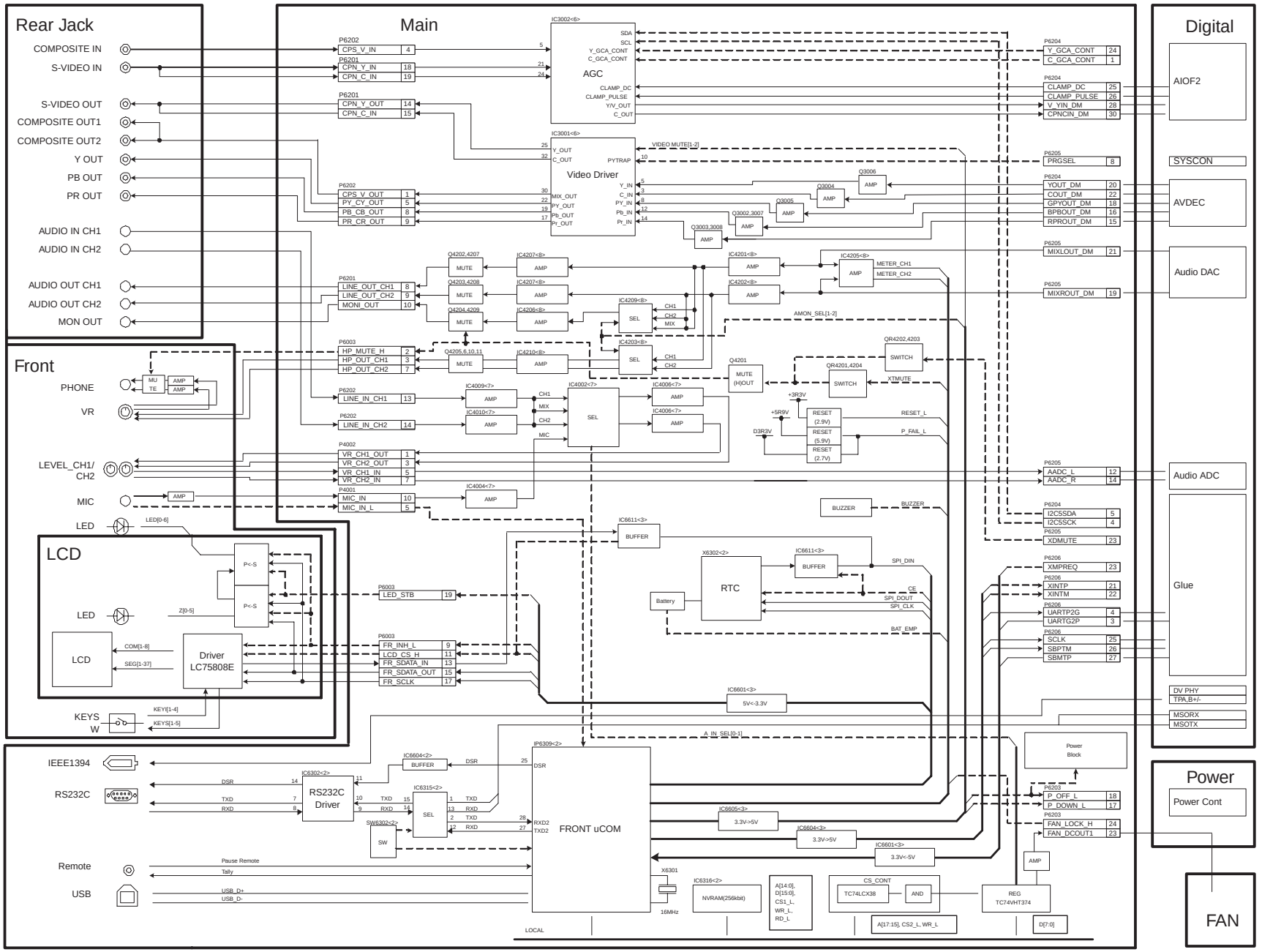
BLOCK DIAGRAMS

CONTENTS

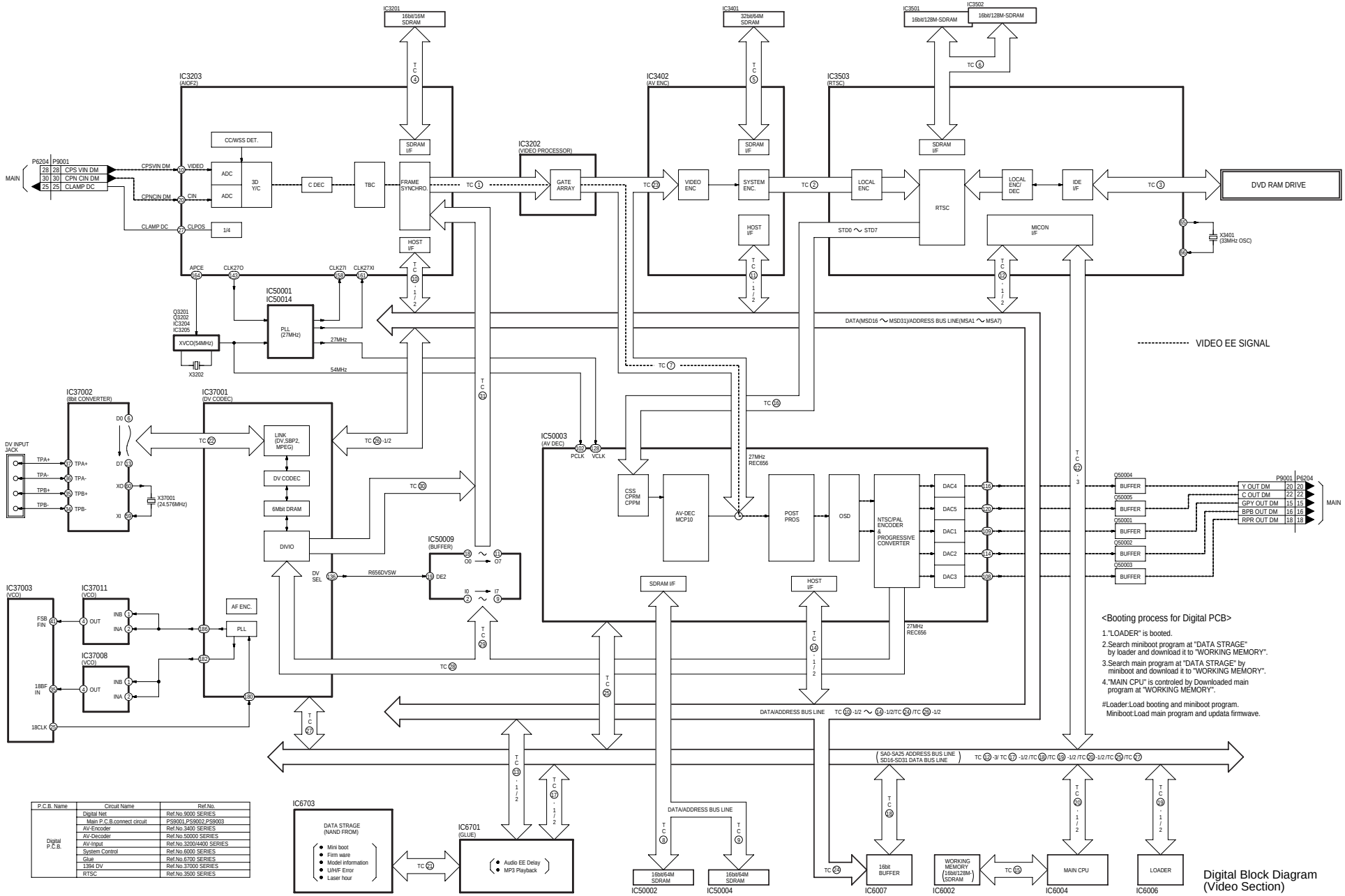
MAIN BLOCK DIAGRAM BLK-1
DIGITAL BLOCK DIAGRAM (Video Section) BLK-2
DIGITAL BLOCK DIAGRAM (Audio Section) BLK-3

MAIN BLOCK DIAGRAM

BLK-1



DIGITAL BLOCK DIAGRAM (Video Section)



<Booting process for Digital PCB>

1."LOADER" is booted.

2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".

3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".

4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

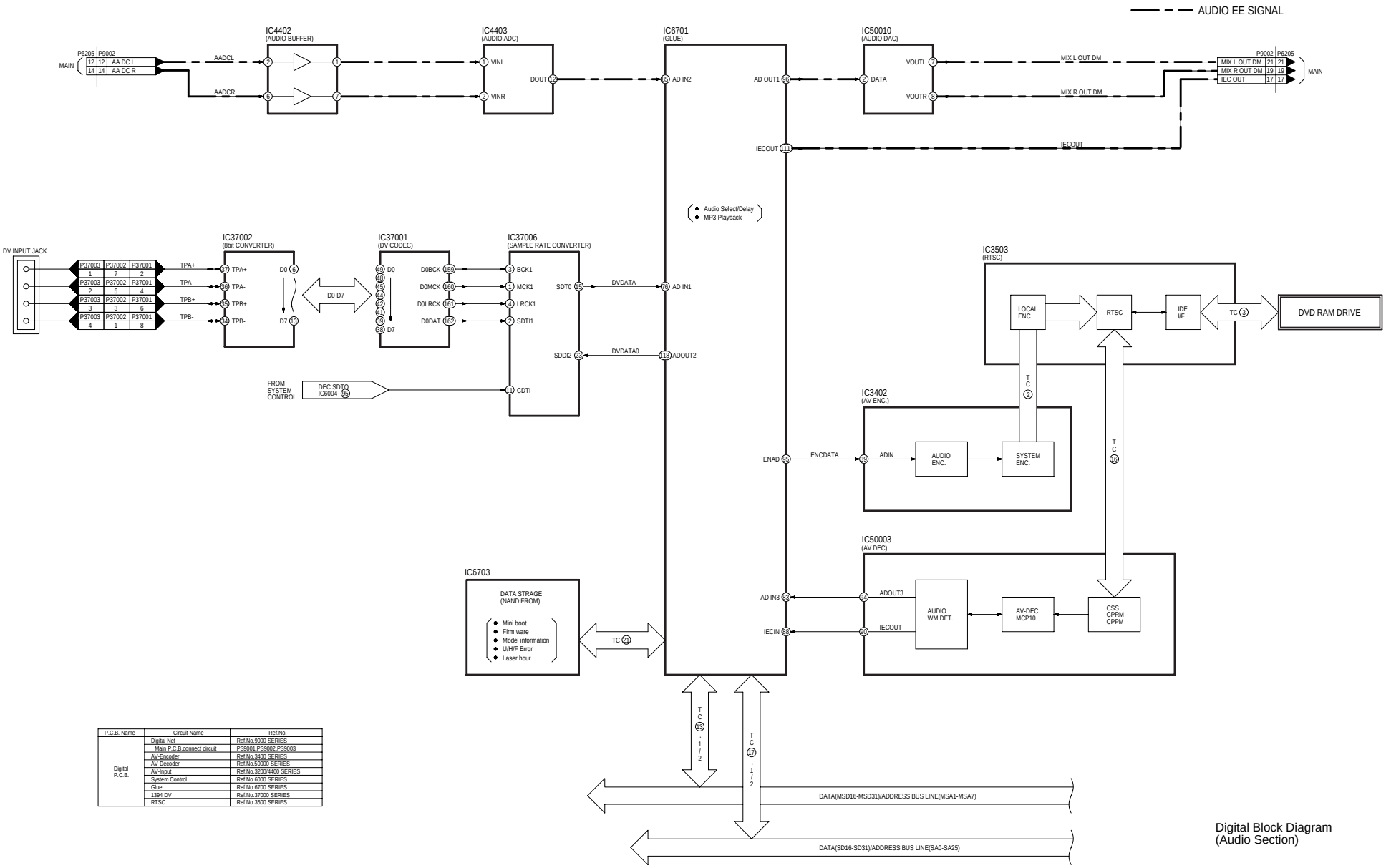
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES

Digital Block Diagram (Video Section)

BLK-2

DIGITAL BLOCK DIAGRAM (Audio Section)

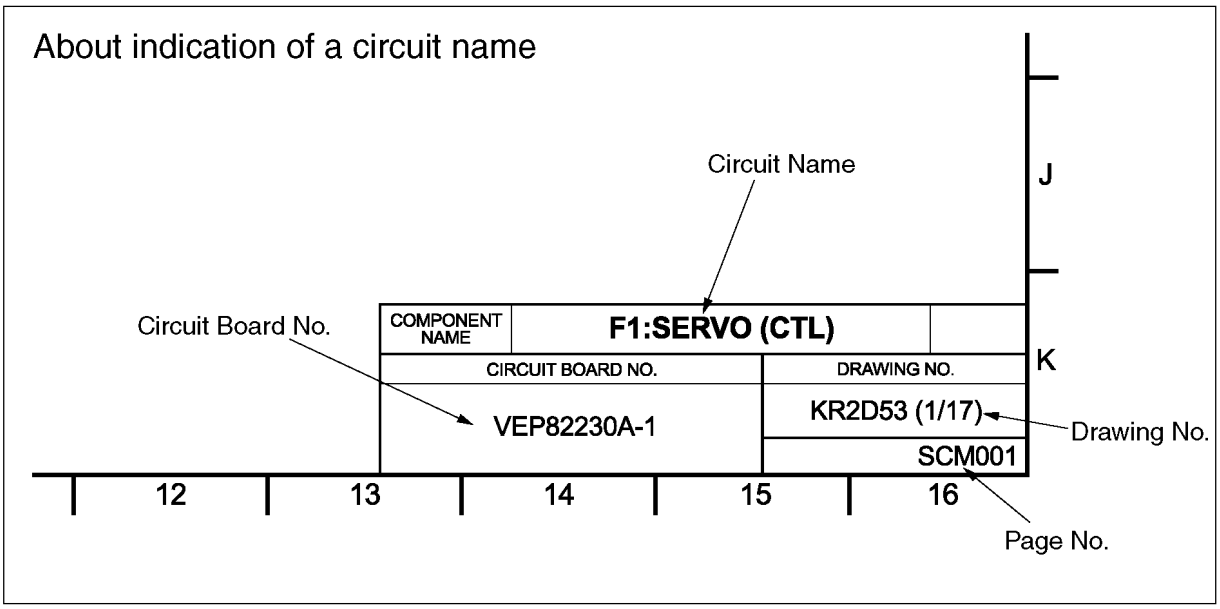


P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES

Digital Block Diagram
(Audio Section)

SECTION 5

SCHEMATIC DIAGRAMS

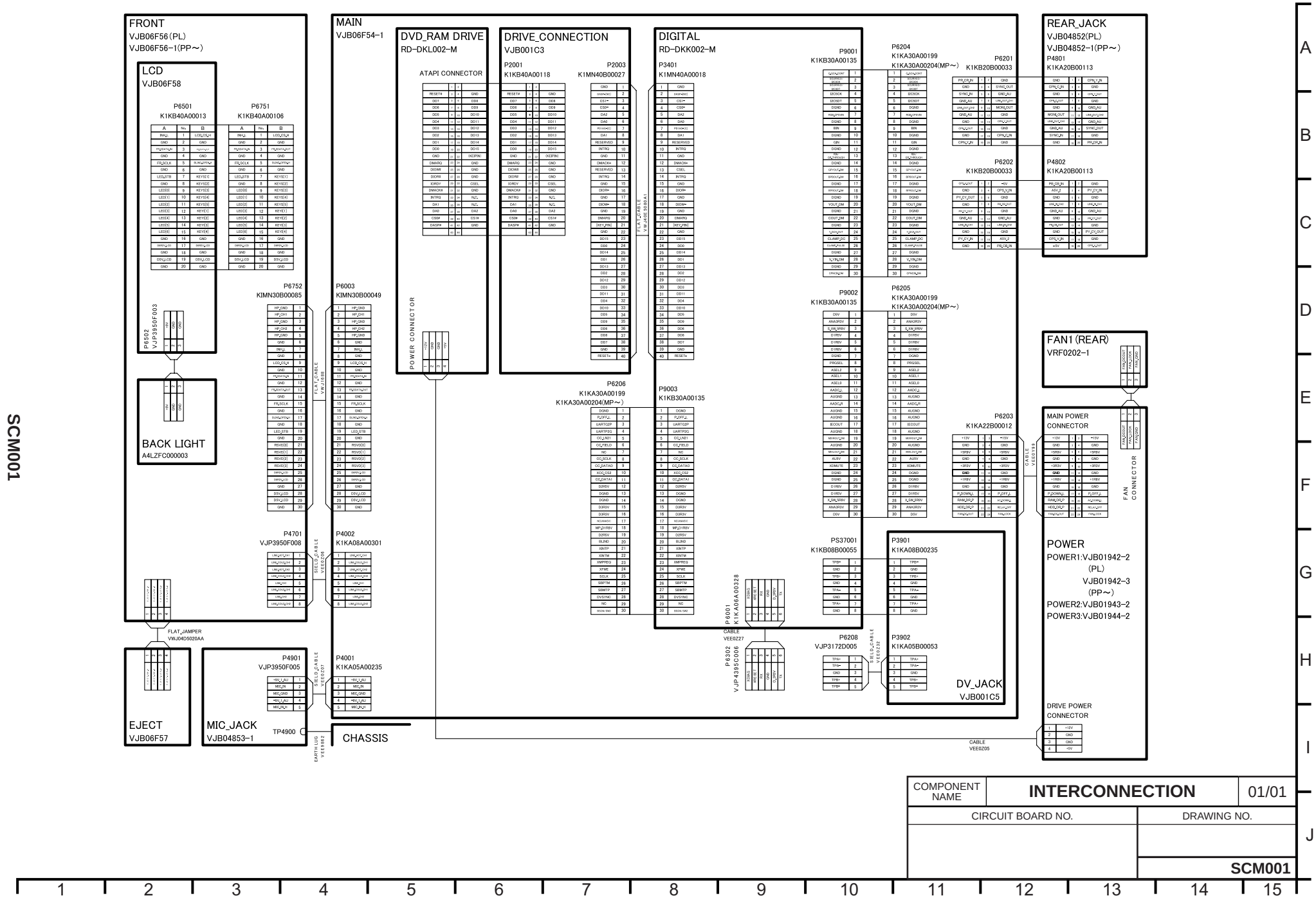


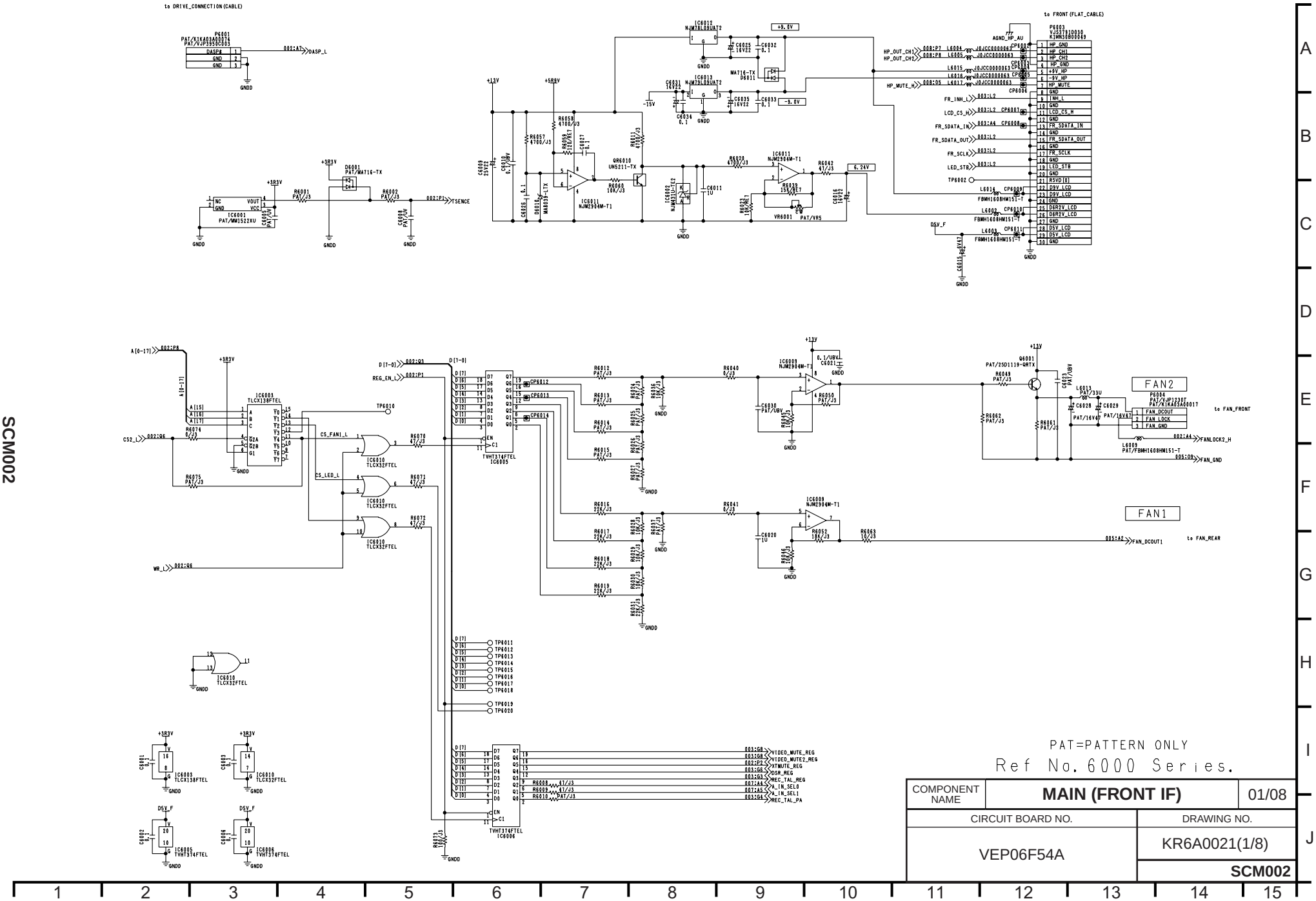
NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST

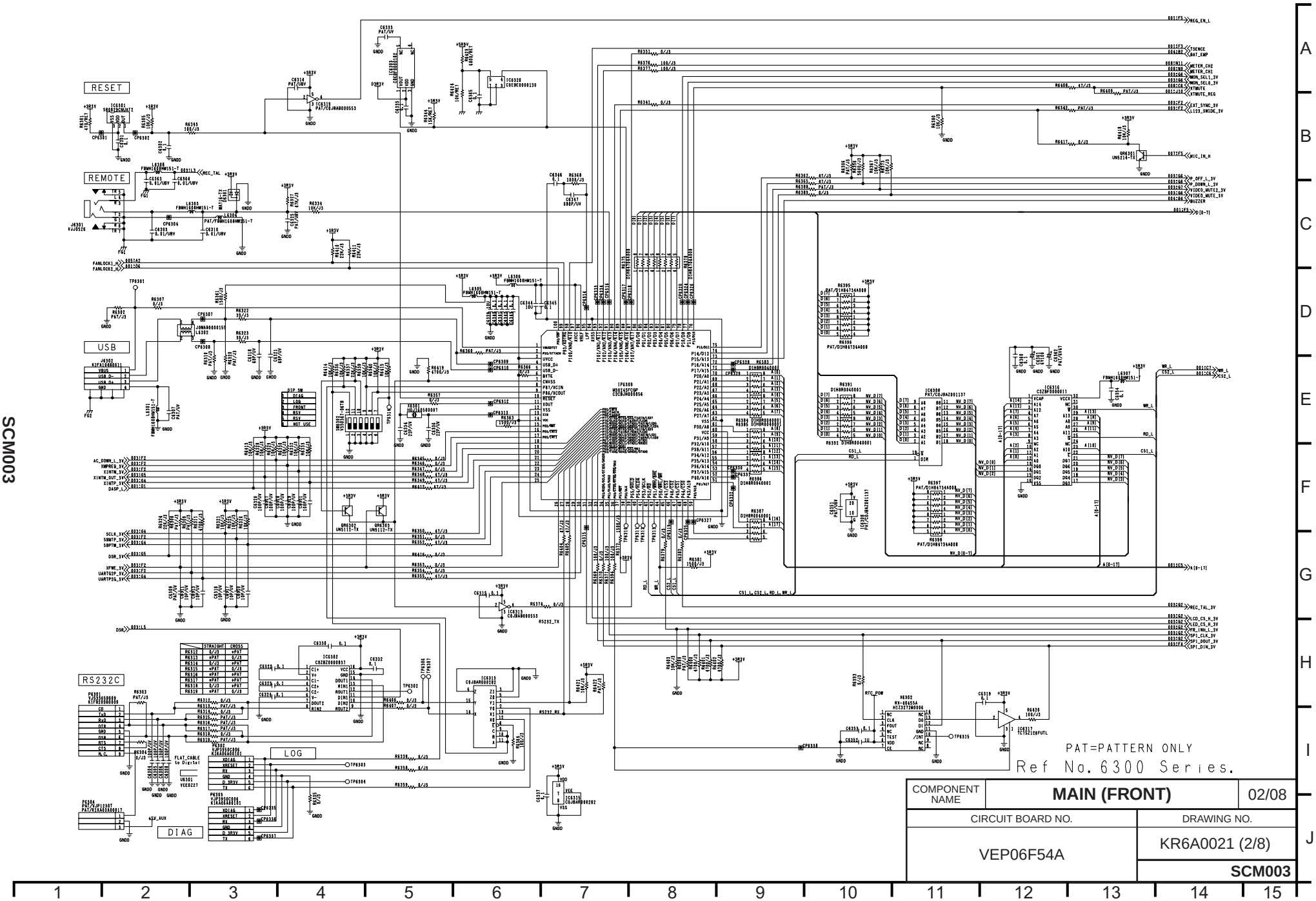
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ▪ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY, WHEN REPLACING ANY OF THESE VOMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

INTERCONNECTION (1/1) SCM001
MAIN (FRONT IF) (1/8) SCM002
MAIN (FRONT) (2/8) SCM003
MAIN (3/5 5/3) (3/8) SCM004
MAIN (BACKUP/BUZZER) (4/8) SCM005
MAIN (INTERFACE) (5/8) SCM006
MAIN (VIDEO) (6/8) SCM007
MAIN (AUDIO1) (7/8) SCM008
MAIN (AUDIO2) (8/8) SCM009
SUB (POWER1) (1/1) SCM010
SUB (POWER2) (1/1) SCM011
SUB (POWER3) (1/2) SCM012
SUB (POWER3) (2/2) SCM013
LCD (1/1) SCM014
FRONT (KEY) (1/3) SCM015
FRONT (HEAD PHONE) (2/3) SCM016
FRONT (CONNECT) (3/3) SCM017
REAR JACK (1/1) SCM018
MIC JACK (1/1) SCM019
DRIVE CONNECTION (1/1) SCM020
DV JACK (1/1) SCM021
EJECT (1/1) SCM022


FRONT
VJB06F56(PL)
VJB06F56-1(PP～)
LCD
VJB06F58
P6501
K1KB40A00013
P6751
K1KB40A00106
P6502
VJP3950F003
BACK LIGHT
A4LZFC000003
P6752
KIMN30B00085
FLAT_CABLE
VKA1008
P6003
KIMN30B00049
P4701
VJP3950F008
SIELD_CABLE
VEE0Z04
P4002
K1KA08A00301
FLAT_JAMPER
VNJ04D5020AA
EJECT
VJB06F57
P4901
VJP3950F005
SIELD_CABLE
VEE0Z07
P4001
K1KA05A00235
MIC_JACK
VJB04853-1
TP4900
EARTH LUG
VEE9982
CHASSIS
MAIN
VJB06F54-1
DVD_RAM DRIVE
RD-DKL002-M
ATAPI CONNECTOR
POWER CONNECTOR
DRIVE_CONNECTION
VJB001C3
P2001
K1KB40A00118
P2003
K1MN40B00027
FLAT_CABLE
VKA1008
DIGITAL
RD-DKK002-M
P3401
K1MN40A00018
P9001
K1KB30A00135
P9002
K1KB30A00135
P9003
K1KB30A00135
P6206
K1KA30A00199
K1KA30A00204(MP～)
P6204
K1KA30A00199
K1KA30A00204(MP～)
P6205
K1KA30A00199
K1KA30A00204(MP～)
P6201
K1KB20B00033
P6202
K1KB20B00033
P6203
K1KA22B00012
REAR_JACK
VJB04852(PL)
VJB04852-1(PP～)
P4801
K1KA20B00113
P4802
K1KA20B00113
FAN1 (REAR)
VRF0202-1
FAN CONNECTOR
MAIN POWER
CONNECTOR
POWER
POWER1:VJB01942-2
(PL)
VJB01942-3
(PP～)
POWER2:VJB01943-2
POWER3:VJB01944-2
DRIVE POWER
CONNECTOR
CABLE
VEE0Z05
P6001
K1KA06A00328
CABLE
VEE0Z27
P6002
VJP4395C000
PS37001
K1KB08B00055
P3901
K1KA08B00235
P6208
VJP3172D005
MELD_CABLE
VEE0Z32
P3902
K1KA05B00053
DV_JACK
VJB001C5
SCM001
COMPONENT NAME
INTERCONNECTION
01/01
CIRCUIT BOARD NO.
DRAWING NO.
SCM001


SCM002
PAT=PATTERN ONLY
Ref No. 6000 Series.
COMPONENT NAME
MAIN (FRONT IF)
01/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021(1/8)
SCM002
FAN2
FAN1
to DRIVE_CONNECTION(CABLE)
to FRONT (FLAT_CABLE)
to FAN_FRONT
to FAN_REAR

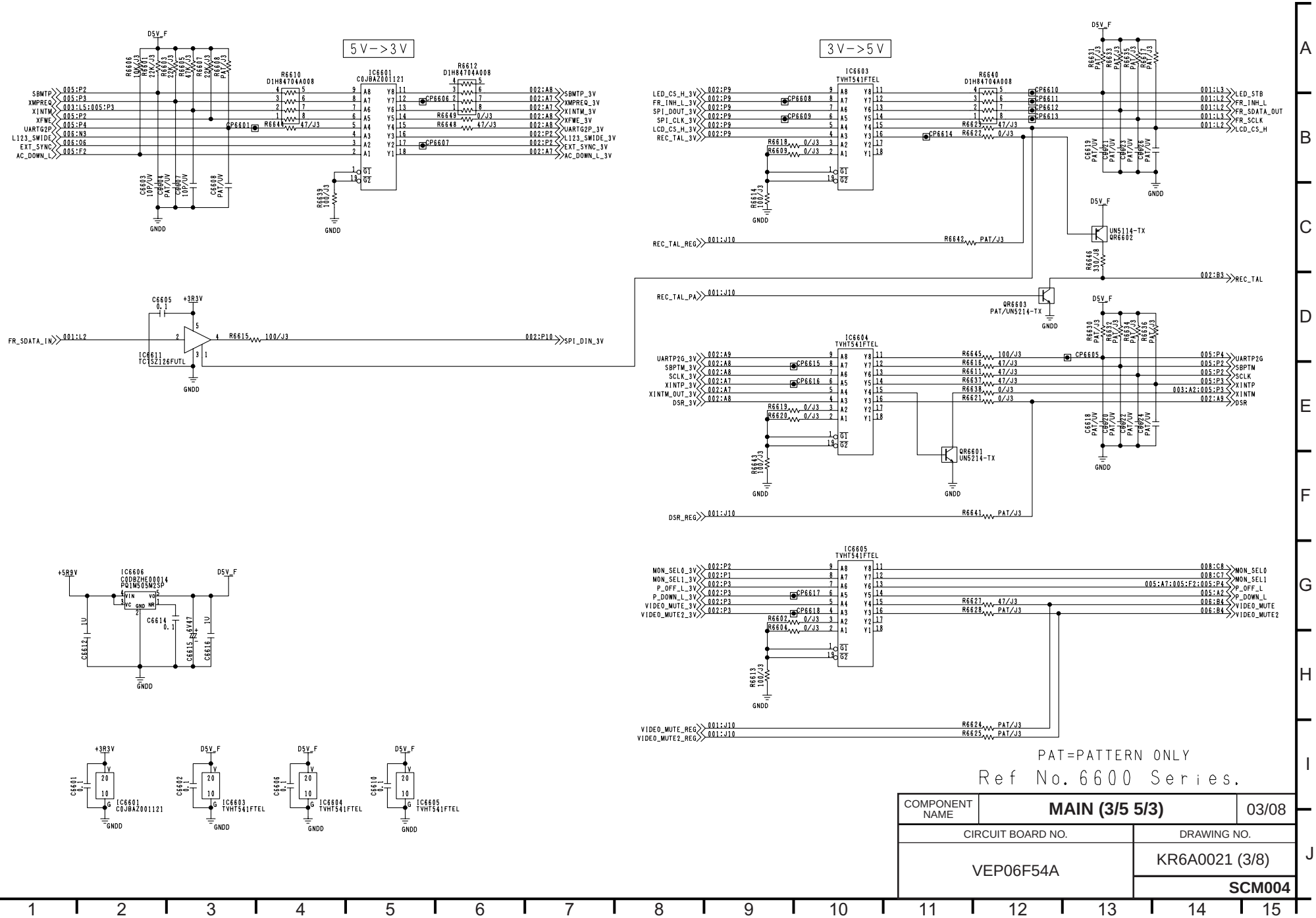


SCM003

COMPONENT NAME	MAIN (FRONT)	02/08
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F54A		KR6A0021 (2/8)
		SCM003

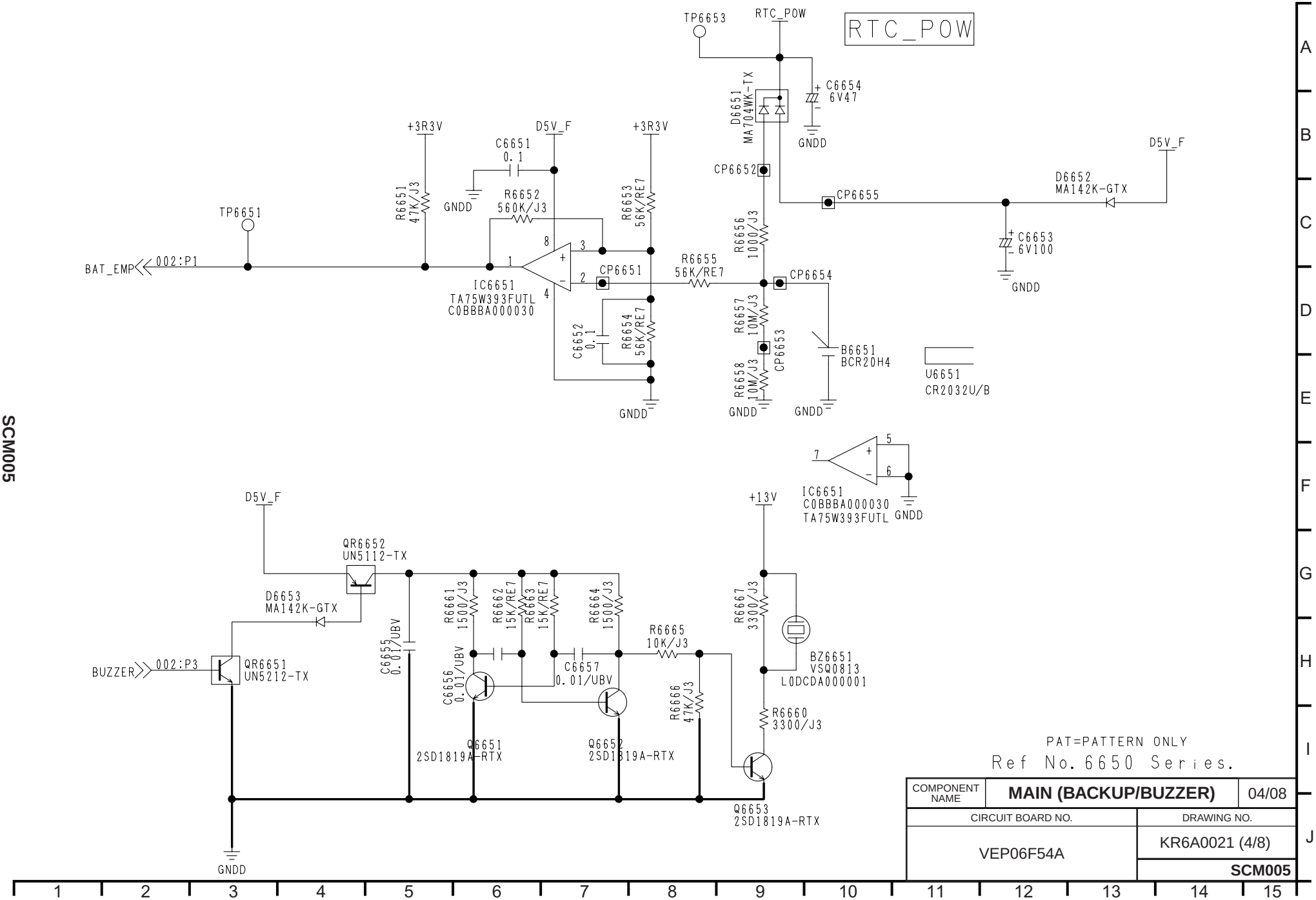
A B C D E F G H I J

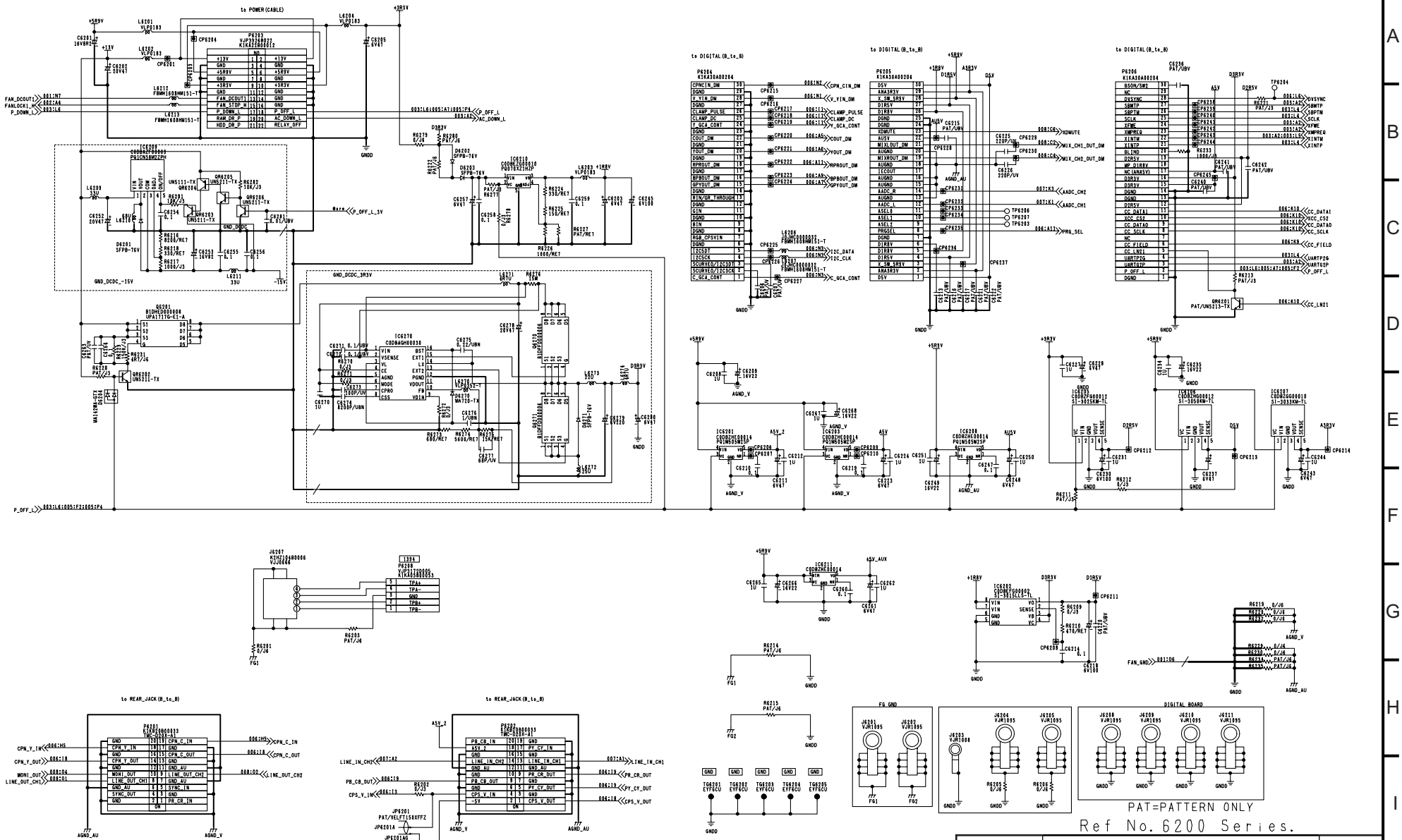
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



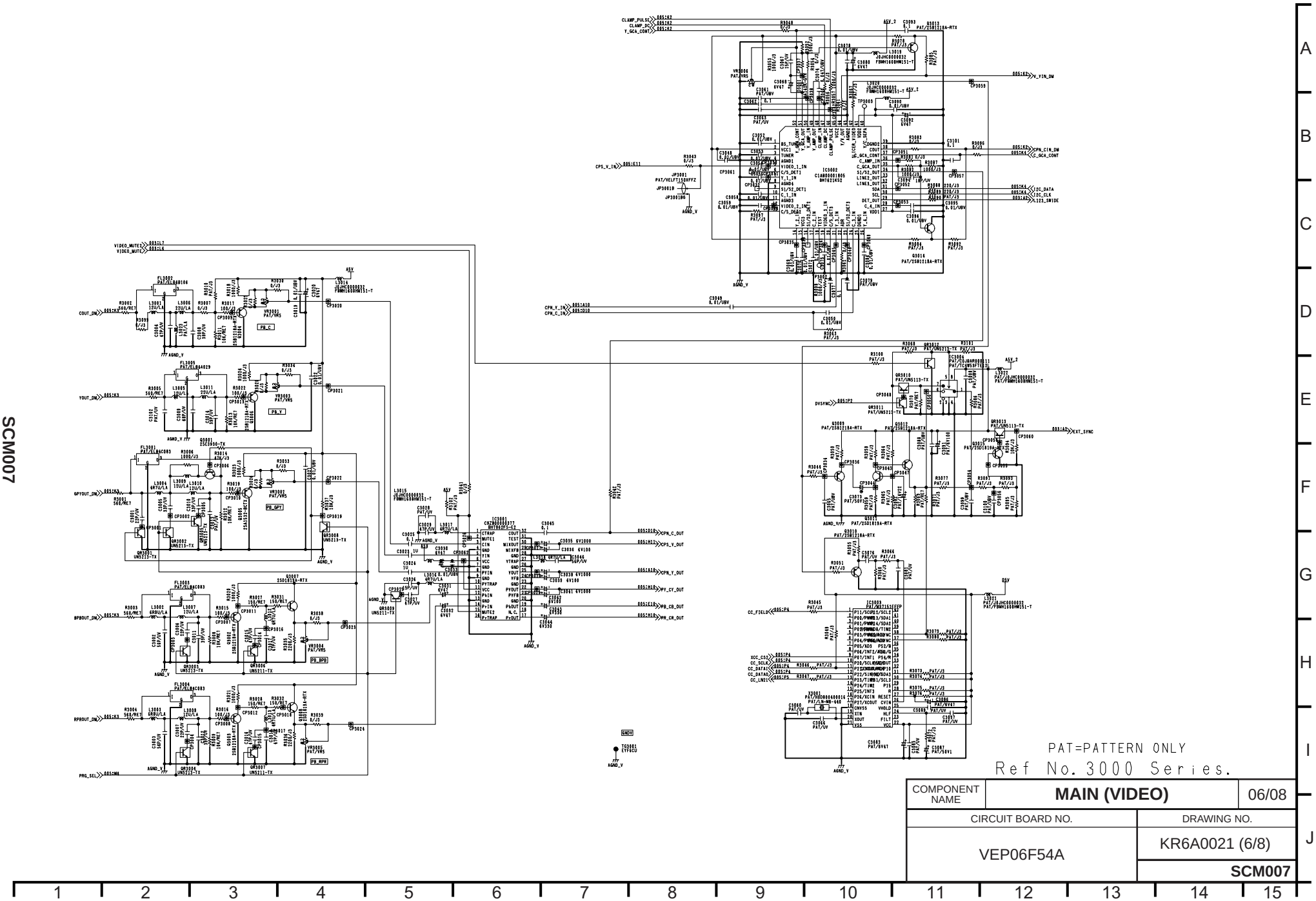
SCM004

COMPONENT NAME	**MAIN (3/5 5/3)**	03/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F54A	KR6A0021 (3/8)	
	SCM004	


RTC_POW
TP6653
RTC_POW
D6651
MA704WK-TX
C6654
6V47
GNDD
+3R3V
D5V_F
+3R3V
C6651
0.1
R6651
47K/J3
GNDD
R6652
560K/J3
R6653
56K/RE7
CP6652
CP6655
D6652
MA142K-GTX
D5V_F
TP6651
R6656
1000/J3
C6653
6V100
GNDD
BAT_EMP
002:P1
IC6651
TA75W393FUTL
C0BBBA000030
CP6651
R6655
56K/RE7
CP6654
C6652
0.1
R6654
56K/RE7
R6657
10M/J3
CP6653
B6651
BCR20H4
U6651
CR2032U/B
R6658
10M/J3
GNDD
GNDD
GNDD
IC6651
C0BBBA000030
TA75W393FUTL
GNDD
D5V_F
+13V
QR6652
UN5112-TX
D6653
MA142K-GTX
R6661
1500/J3
R6662
15K/RE7
R6663
15K/RE7
R6664
1500/J3
R6665
10K/J3
R6667
3300/J3
BZ6651
VSQ0813
L0DCDA000001
BUZZER
002:P3
QR6651
UN5212-TX
C6655
0.01/UBV
C6656
0.01/UBV
C6657
0.01/UBV
R6666
47K/J3
R6660
3300/J3
Q6651
2SD1819A-RTX
Q6652
2SD1819A-RTX
Q6653
2SD1819A-RTX
GNDD
PAT=PATTERN ONLY
Ref No. 6650 Series.
COMPONENT NAME
MAIN (BACKUP/BUZZER)
04/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021 (4/8)
SCM005
SCM005
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15



COMPONENT NAME	**MAIN (INTERFACE)**	05/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F54A	KR6A0021 (5/8)	
	SCM006	

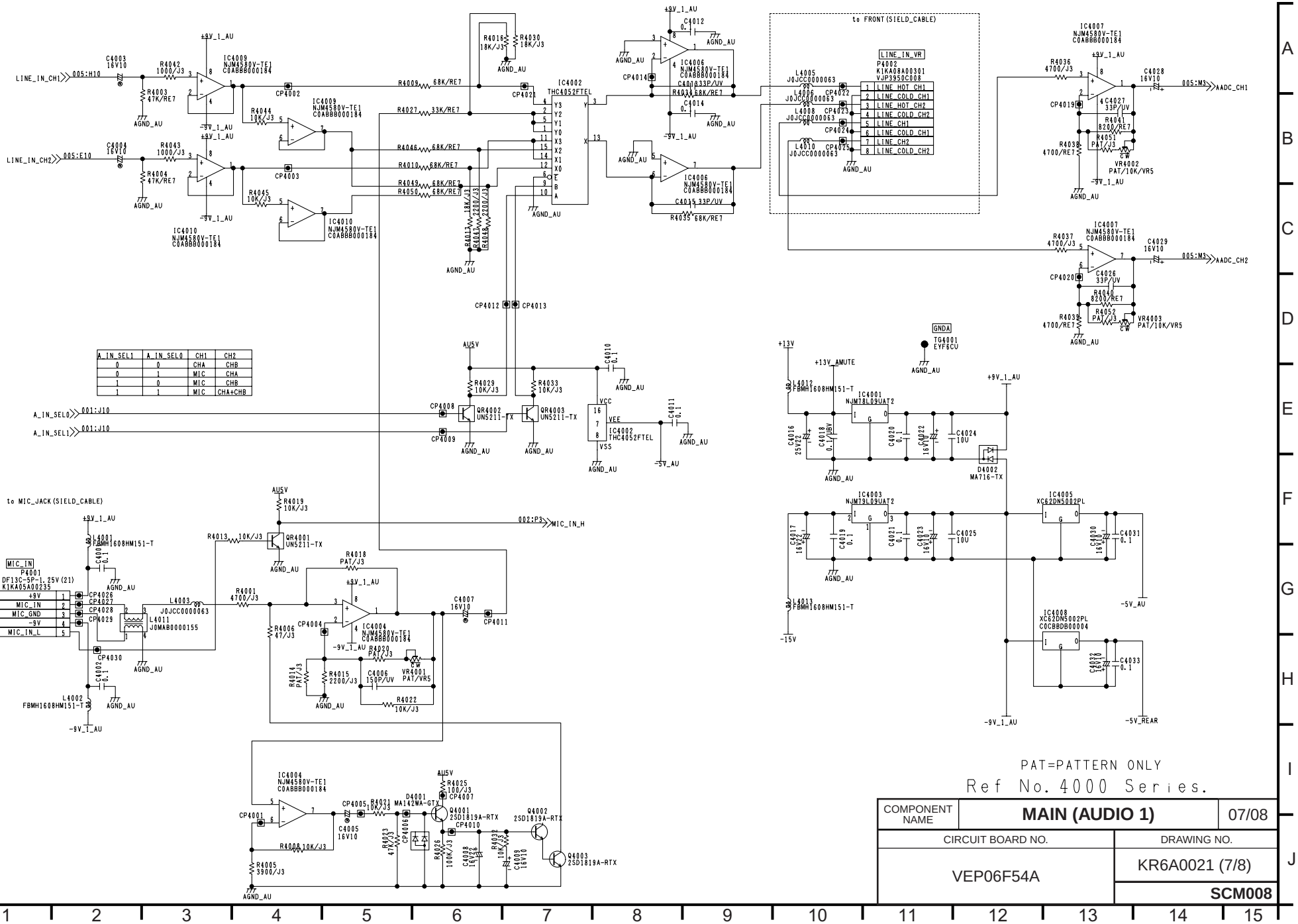


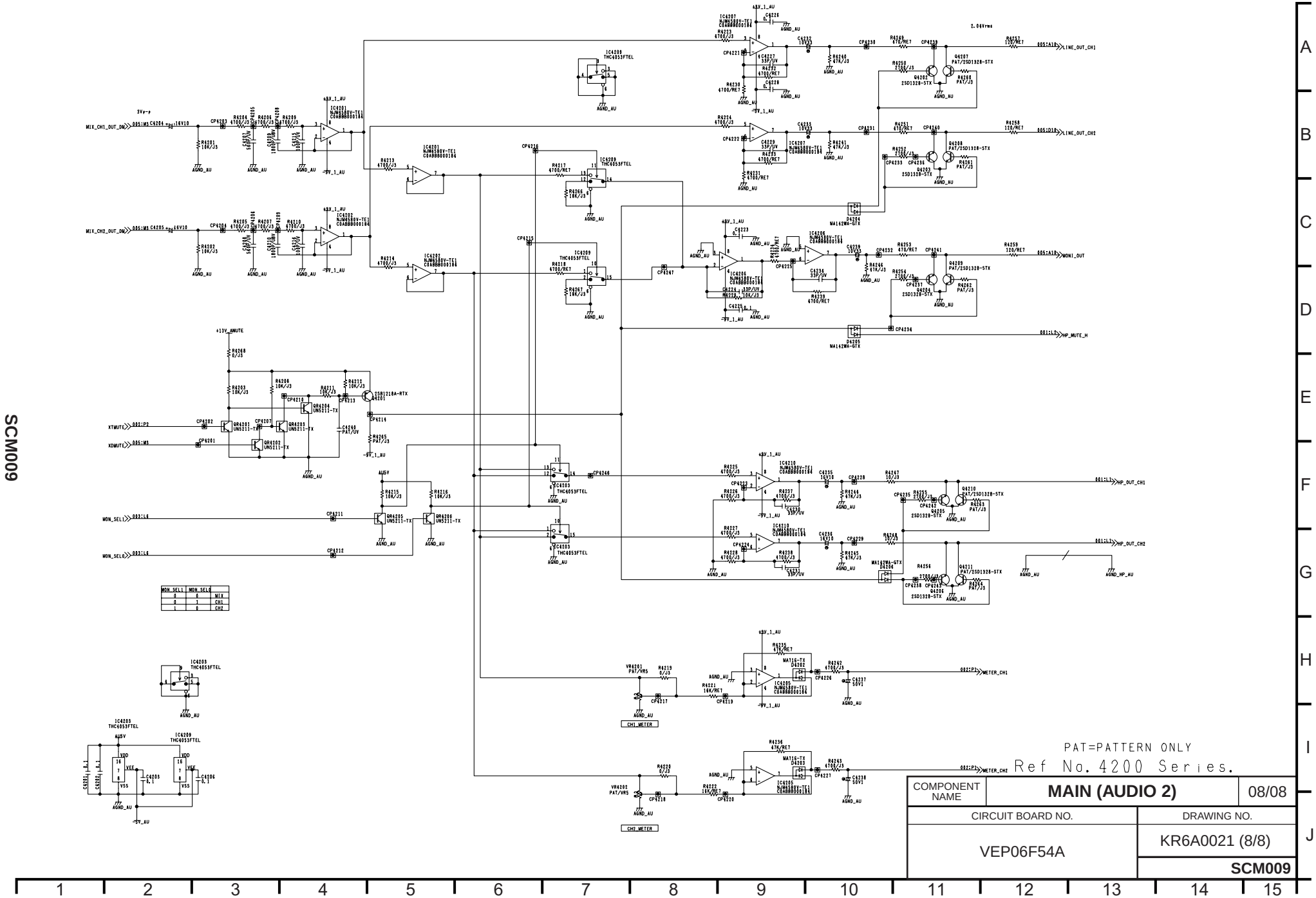
PAT=PATTERN ONLY

Ref No. 3000 Series.

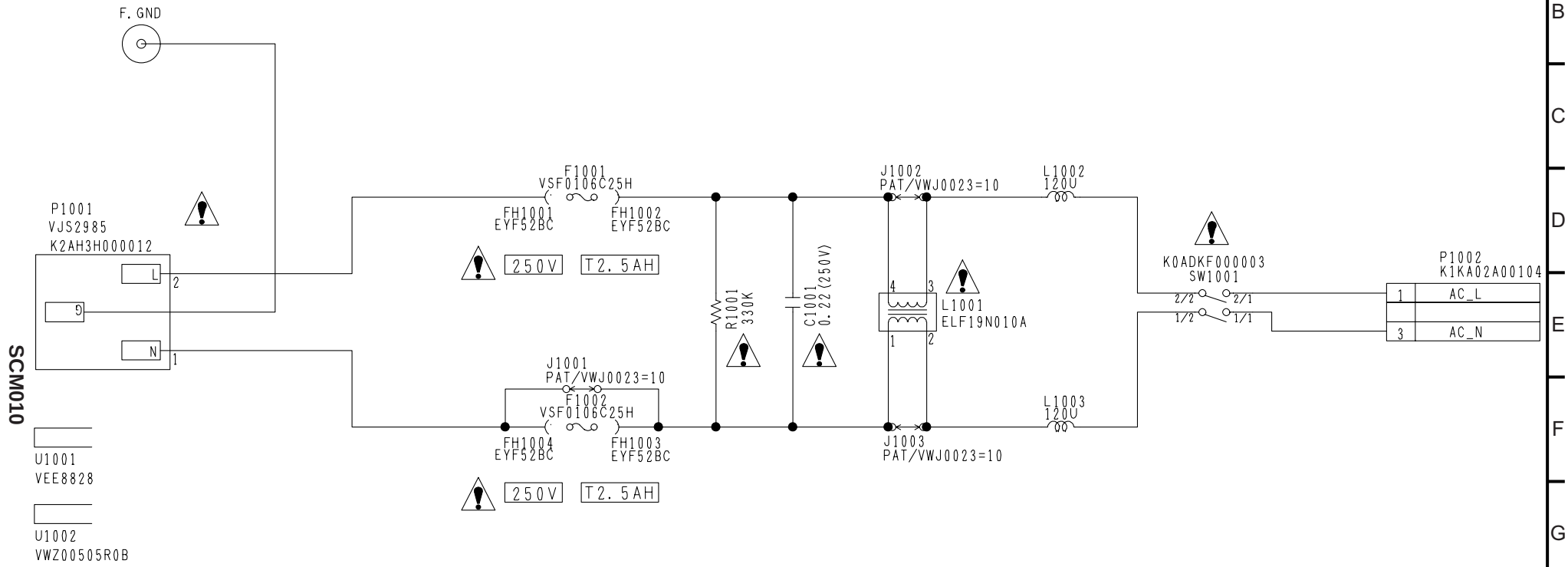
COMPONENT NAME	MAIN (VIDEO)	06/08
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F54A		KR6A0021 (6/8)
		SCM007

SCM007


SCM008
A_IN_SEL1 | A_IN_SEL0 | CH1 | CH2
0 | 0 | CHA | CHB
0 | 1 | MIC | CHA
1 | 0 | MIC | CHB
1 | 1 | MIC | CHA+CHB
to FRONT(SIELD_CABLE)
LINE_IN_VR
P4002
K1KA08A00301
VJP3950C008
1 LINE_HOT_CH1
2 LINE_COLD_CH1
3 LINE_HOT_CH2
4 LINE_COLD_CH2
5 LINE_CH1
6 LINE_COLD_CH1
7 LINE_CH2
8 LINE_COLD_CH2
to MIC_JACK(SIELD_CABLE)
MIC_IN
P4001
DF13C-5P-1.25V(21)
K1KA05A00235
+9V
MIC_IN
MIC_GND
-9V
MIC_IN_L
PAT=PATTERN ONLY
Ref No. 4000 Series.
COMPONENT NAME
MAIN (AUDIO 1)
07/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021 (7/8)
SCM008


SCM009
MON_SEL1 | MON_SEL0
0 | 0 | MIX
0 | 1 | CH1
1 | 0 | CH2
PAT=PATTERN ONLY
Ref No. 4200 Series.
COMPONENT NAME
MAIN (AUDIO 2)
08/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021 (8/8)
SCM009

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS ONLY THE SAME TYPE.



SCM010

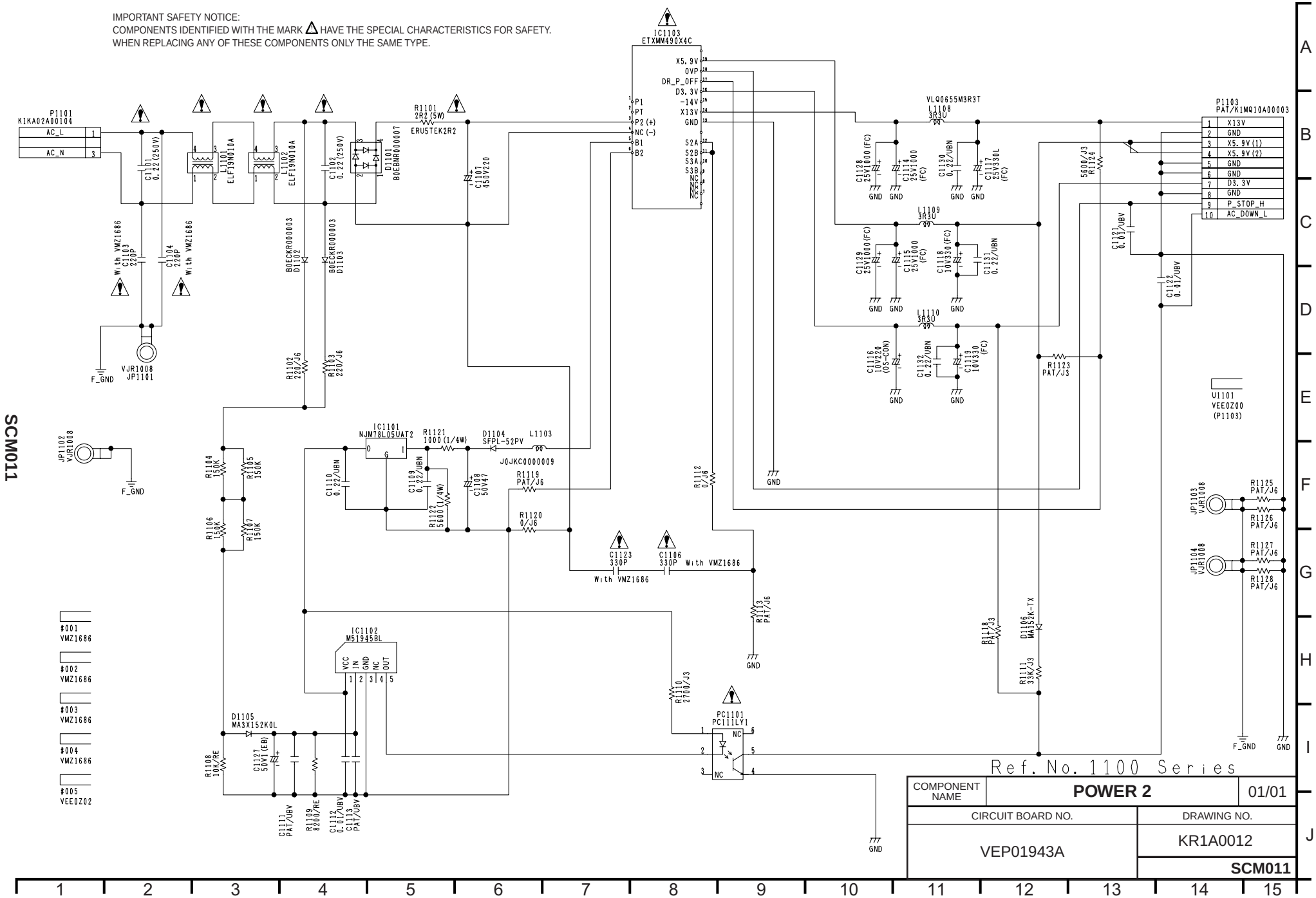
Ref. No. 1000 Series

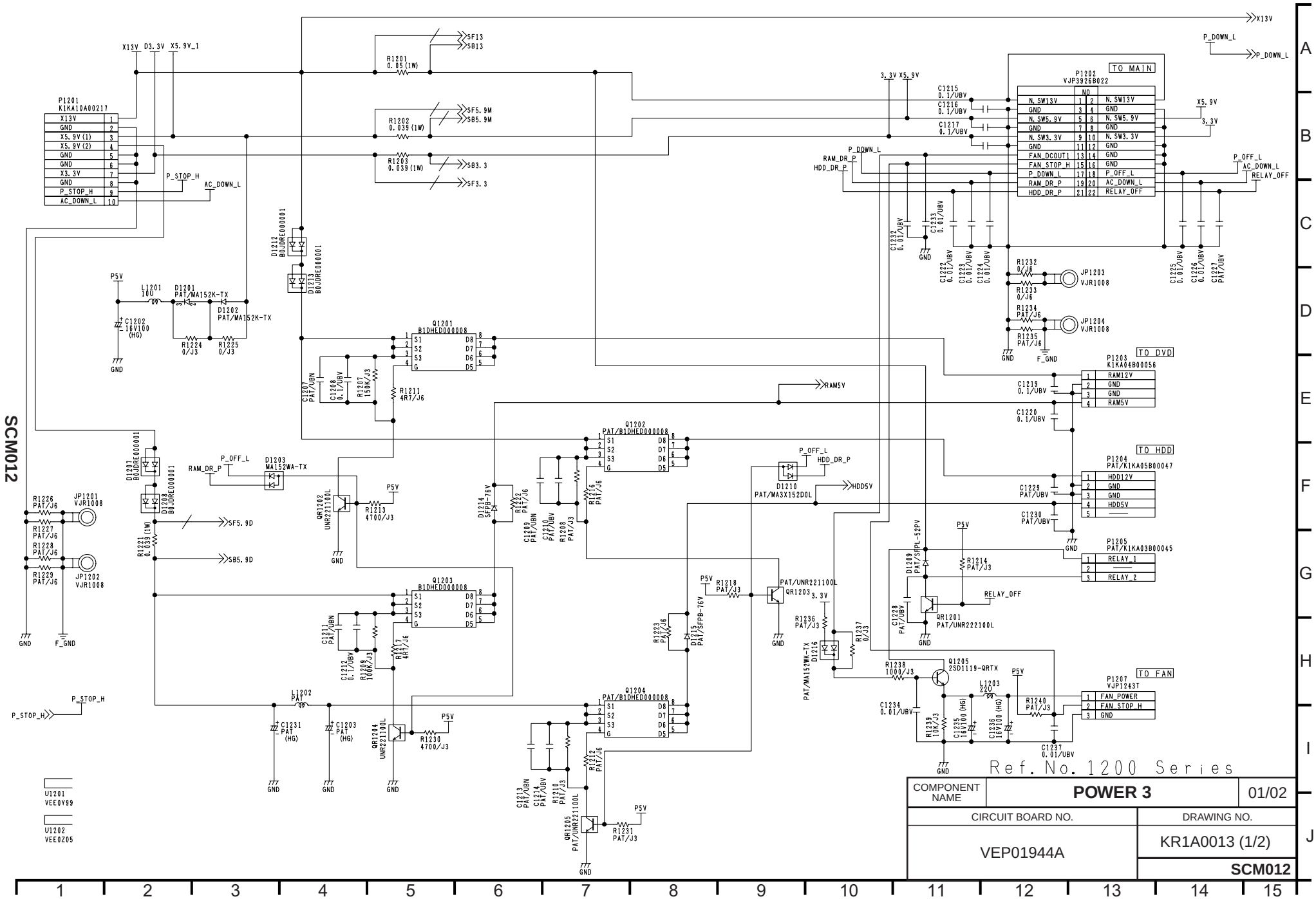
COMPONENT NAME	POWER 1	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01942A		KR1A0011
		SCM010

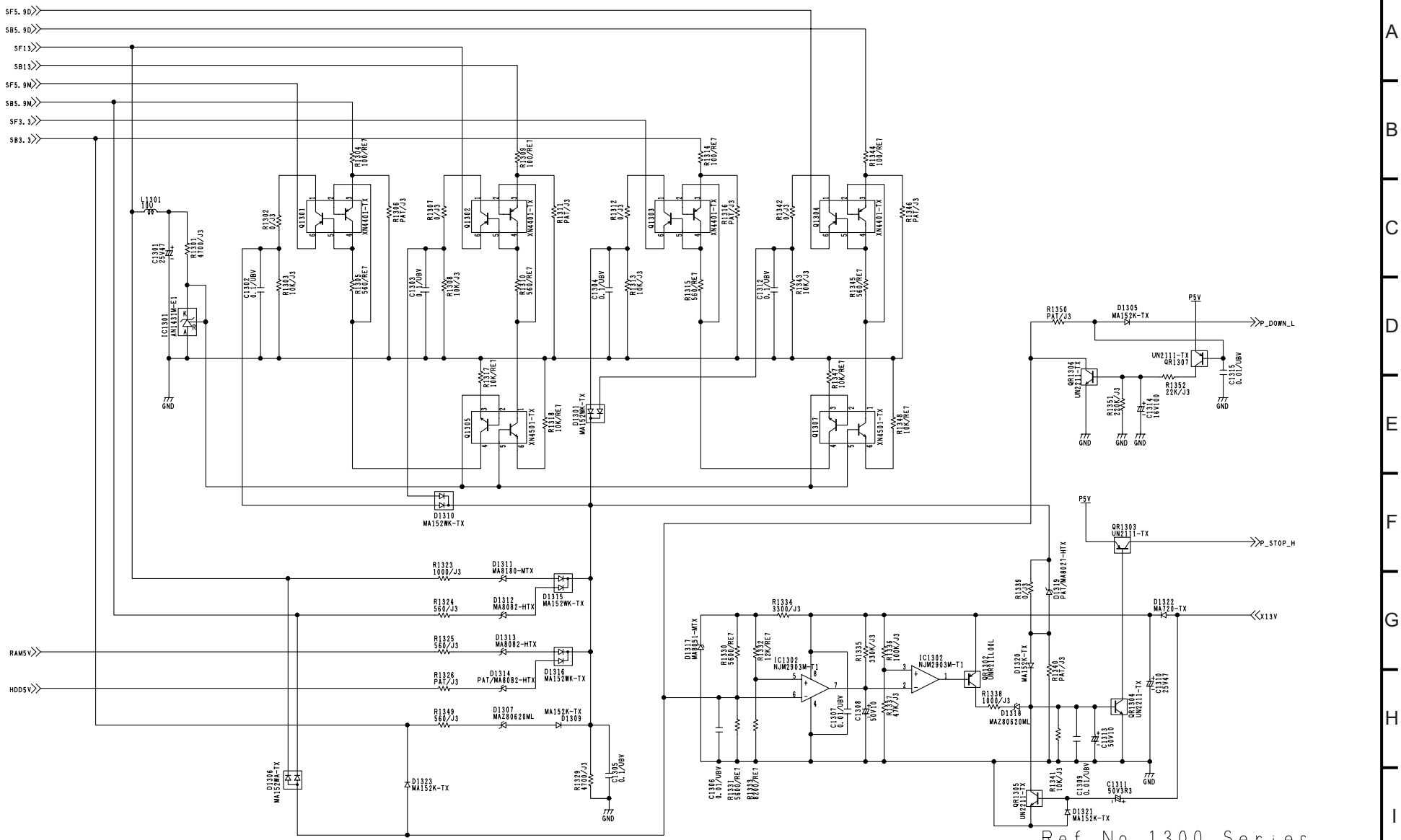
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS ONLY THE SAME TYPE.

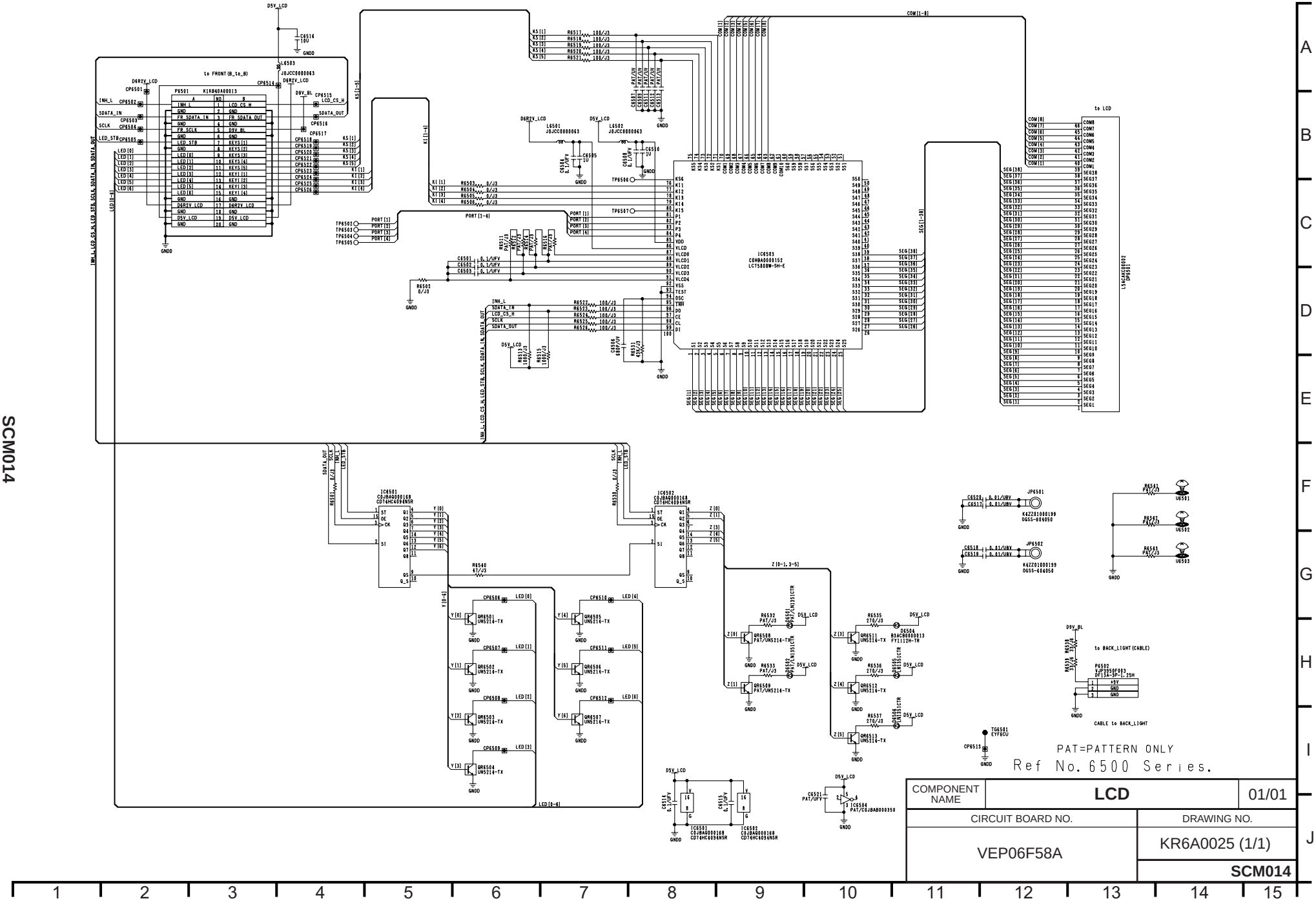


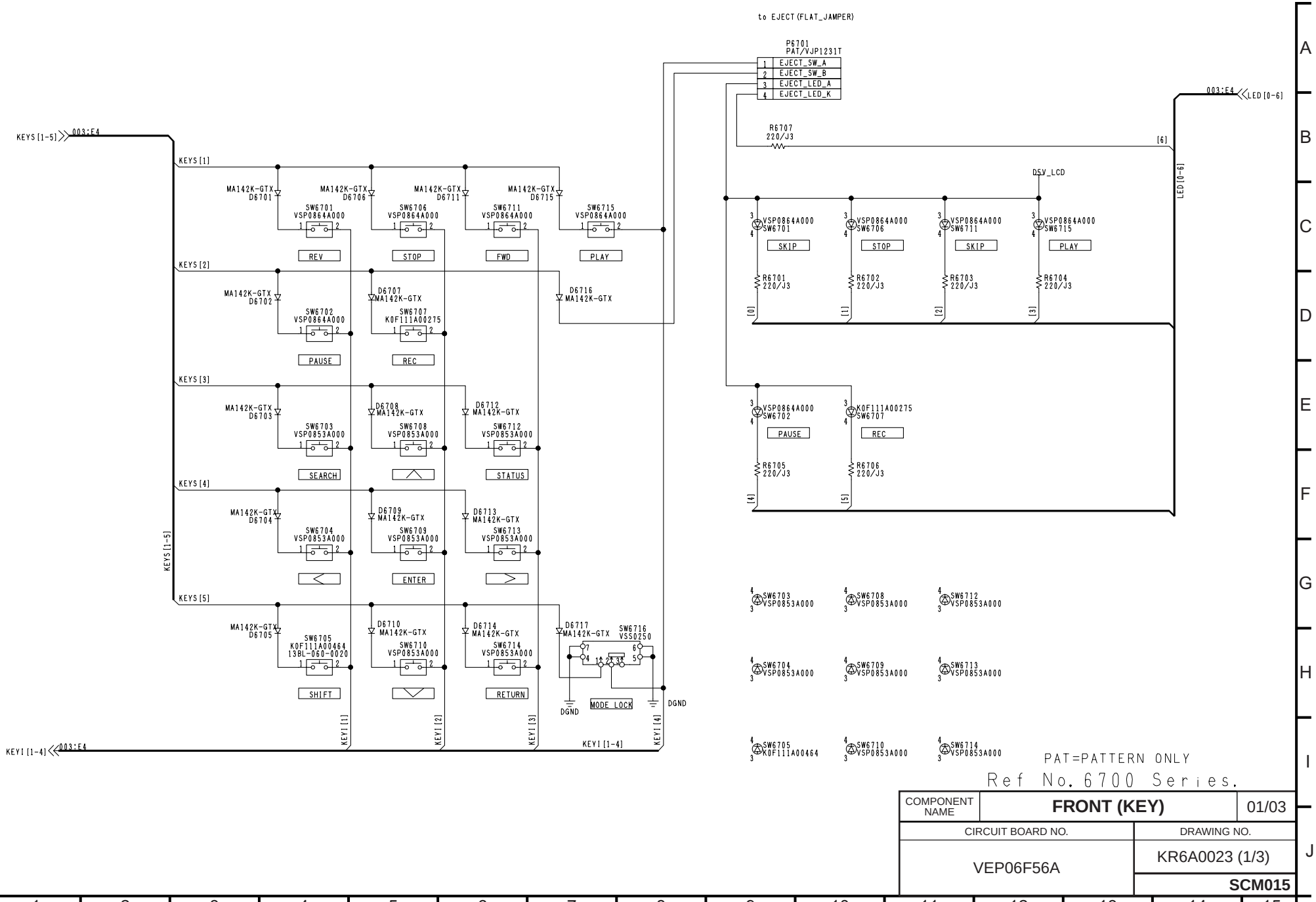

SCM012
P1201
K1KA10A00217
X13V
GND
X5.9V(1)
X5.9V(2)
GND
GND
X3.3V
GND
P_STOP_H
AC_DOWN_L
P1202
VJP3926B022
TO MAIN
N.SW13V
GND
N.SW5.9V
GND
N.SW3.3V
GND
FAN_DCOUT1
FAN_STOP_H
P_DOWN_L
RAM_DR_P
HDD_DR_P
P_OFF_L
AC_DOWN_L
RELAY_OFF
P1203
K1KA04B00056
TO DVD
RAM12V
GND
GND
RAM5V
P1204
PAT/K1KA05B00047
TO HDD
HDD12V
GND
GND
HDD5V
P1205
PAT/K1KA03B00045
RELAY_1
RELAY_2
P1207
VJP1243T
TO FAN
FAN_POWER
FAN_STOP_H
GND
JP1201
VJR1008
JP1202
VJR1008
JP1203
VJR1008
JP1204
VJR1008
U1201
VEEOY99
U1202
VEEOZ05
Ref. No. 1200 Series
COMPONENT NAME
POWER 3
01/02
CIRCUIT BOARD NO.
VEP01944A
DRAWING NO.
KR1A0013 (1/2)
SCM012

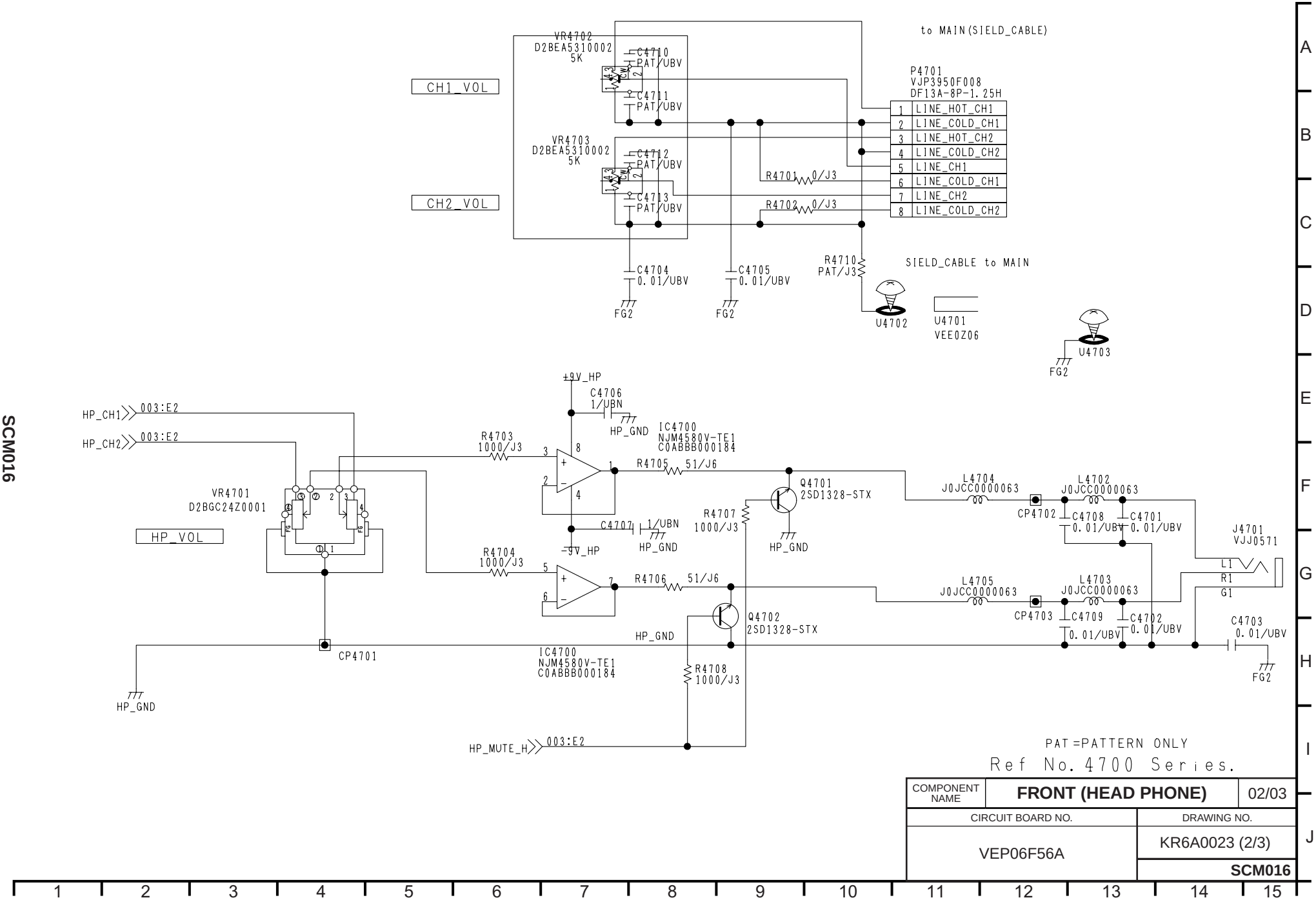


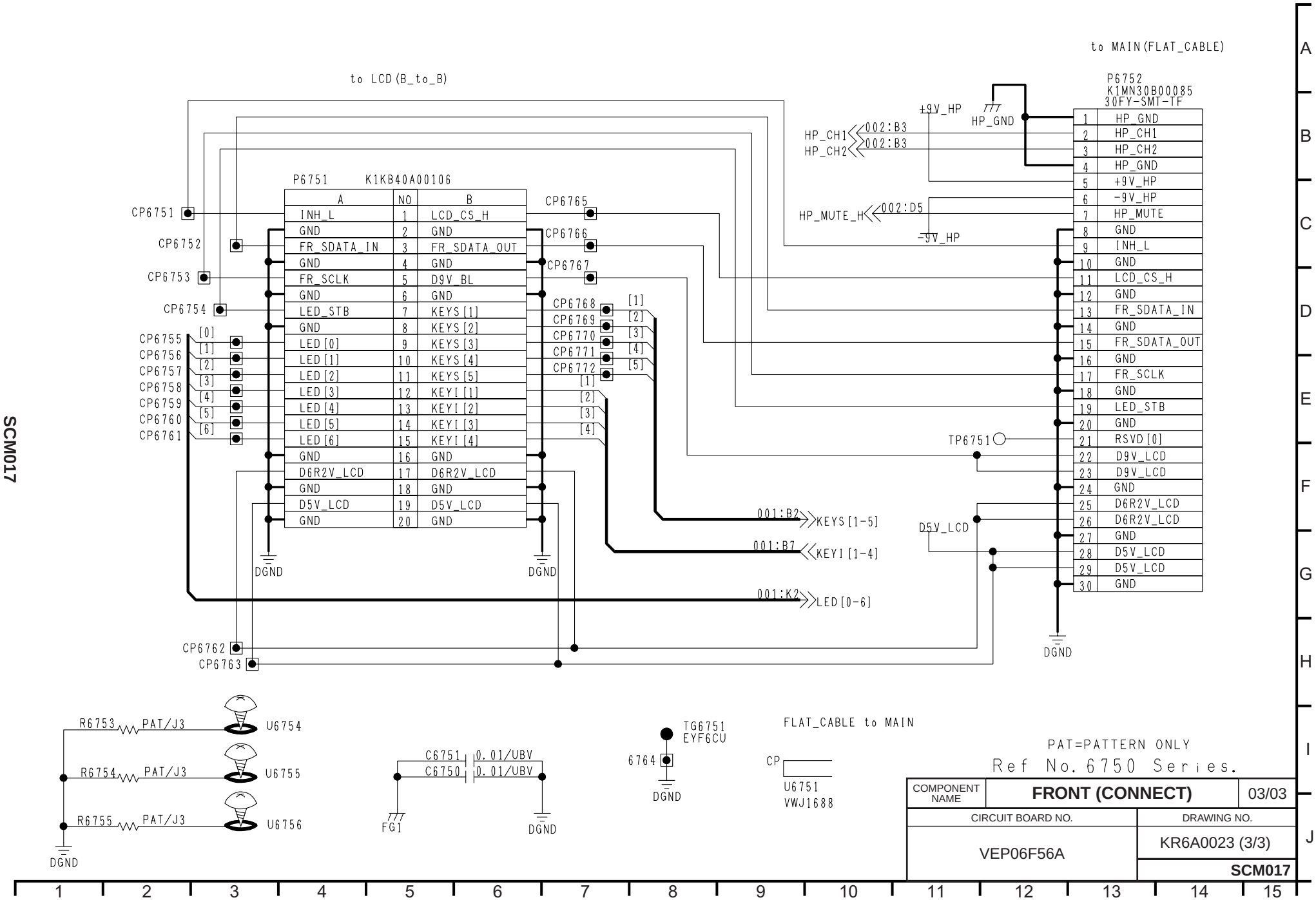
SCM013

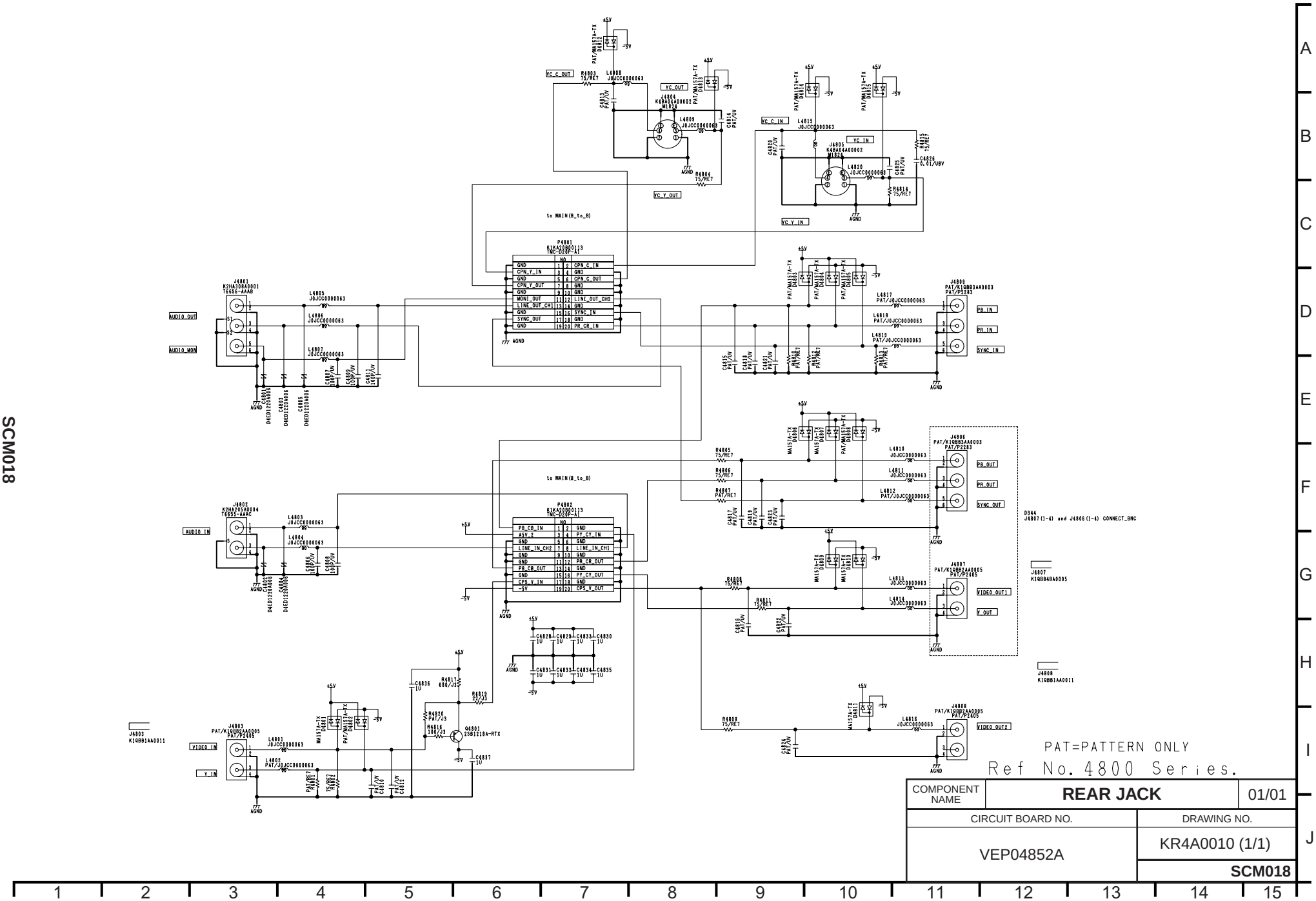
COMPONENT NAME	POWER 3	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01944A		KR1A0013 (2/2)
		SCM013

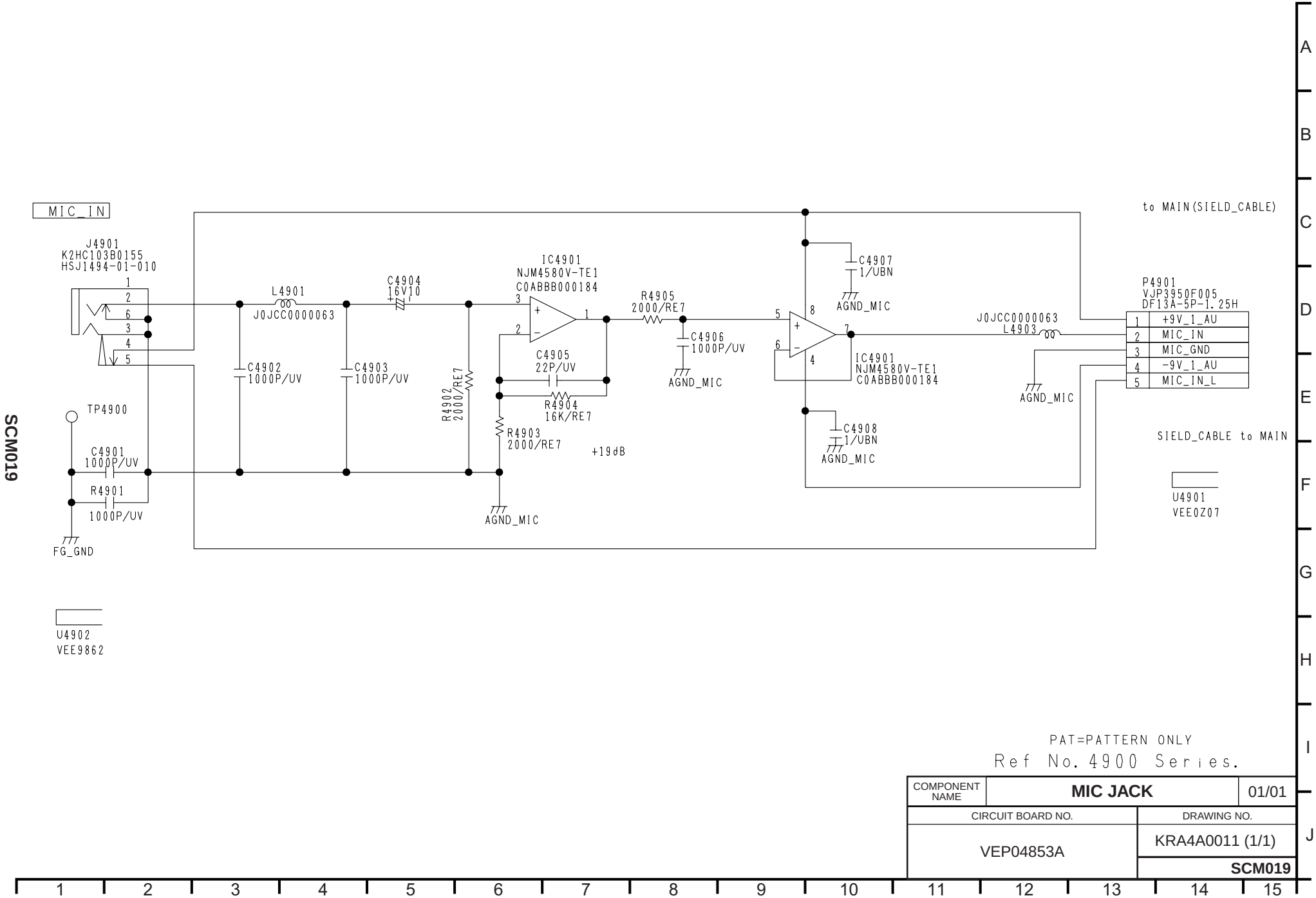

SCM014
PAT=PATTERN ONLY
Ref No. 6500 Series.
COMPONENT NAME
LCD
01/01
CIRCUIT BOARD NO.
VEP06F58A
DRAWING NO.
KR6A0025 (1/1)
SCM014


SCM015
to EJECT(FLAT_JAMPER)
P6701
PAT/VJP1231T
EJECT_SW_A
EJECT_SW_B
EJECT_LED_A
EJECT_LED_K
003:E4
LED [0-6]
R6707
220/J3
DSV_LCD
KEYS [1-5]
KEYS [1]
KEYS [2]
KEYS [3]
KEYS [4]
KEYS [5]
REV
STOP
FWD
PLAY
PAUSE
REC
SEARCH
STATUS
ENTER
SHIFT
RETURN
MODE LOCK
SKIP
DGND
KEY1 [1-4]
PAT=PATTERN ONLY
Ref No. 6700 Series.
COMPONENT NAME
FRONT (KEY)
01/03
CIRCUIT BOARD NO.
VEP06F56A
DRAWING NO.
KR6A0023 (1/3)
SCM015


SCM016
VR4702
D2BEA5310002
5K
C4710
PAT/UBV
C4711
PAT/UBV
CH1_VOL
VR4703
D2BEA5310002
5K
C4712
PAT/UBV
C4713
PAT/UBV
CH2_VOL
C4704
0.01/UBV
C4705
0.01/UBV
FG2
FG2
R4701 0/J3
R4702 0/J3
to MAIN(SIELD_CABLE)
P4701
VJP3950F008
DF13A-8P-1.25H
1 LINE_HOT_CH1
2 LINE_COLD_CH1
3 LINE_HOT_CH2
4 LINE_COLD_CH2
5 LINE_CH1
6 LINE_COLD_CH1
7 LINE_CH2
8 LINE_COLD_CH2
R4710
PAT/J3
SIELD_CABLE to MAIN
U4702
U4701
VEE0Z06
U4703
FG2
HP_CH1
003:E2
HP_CH2
003:E2
VR4701
D2BGC24Z0001
HP_VOL
+9V_HP
C4706
1/UBN
HP_GND
IC4700
NJM4580V-TE1
C0ABBB000184
R4703
1000/J3
R4704
1000/J3
R4705 51/J6
R4706 51/J6
R4707
1000/J3
Q4701
2SD1328-STX
Q4702
2SD1328-STX
C4707 1/UBN
HP_GND
-9V_HP
HP_GND
L4704
J0JCC0000063
L4705
J0JCC0000063
L4702
J0JCC0000063
L4703
J0JCC0000063
CP4702
CP4703
C4708
0.01/UBV
C4701
0.01/UBV
C4709
0.01/UBV
C4702
0.01/UBV
J4701
VJJ0571
L1
R1
G1
C4703
0.01/UBV
FG2
CP4701
HP_GND
IC4700
NJM4580V-TE1
C0ABBB000184
R4708
1000/J3
HP_MUTE_H
003:E2
PAT=PATTERN ONLY
Ref No. 4700 Series.
COMPONENT NAME
FRONT (HEAD PHONE)
02/03
CIRCUIT BOARD NO.
VEP06F56A
DRAWING NO.
KR6A0023 (2/3)
SCM016
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


SCM017
to LCD(B_to_B)
to MAIN(FLAT_CABLE)
P6751 K1KB40A00106
P6752 K1MN30B00085 30FY-SMT-TF
A NO B
INH_L 1 LCD_CS_H
GND 2 GND
FR_SDATA_IN 3 FR_SDATA_OUT
GND 4 GND
FR_SCLK 5 D9V_BL
GND 6 GND
LED_STB 7 KEYS[1]
GND 8 KEYS[2]
LED[0] 9 KEYS[3]
LED[1] 10 KEYS[4]
LED[2] 11 KEYS[5]
LED[3] 12 KEYI[1]
LED[4] 13 KEYI[2]
LED[5] 14 KEYI[3]
LED[6] 15 KEYI[4]
GND 16 GND
D6R2V_LCD 17 D6R2V_LCD
GND 18 GND
D5V_LCD 19 D5V_LCD
GND 20 GND
1 HP_GND
2 HP_CH1
3 HP_CH2
4 HP_GND
5 +9V_HP
6 -9V_HP
7 HP_MUTE
8 GND
9 INH_L
10 GND
11 LCD_CS_H
12 GND
13 FR_SDATA_IN
14 GND
15 FR_SDATA_OUT
16 GND
17 FR_SCLK
18 GND
19 LED_STB
20 GND
21 RSVD[0]
22 D9V_LCD
23 D9V_LCD
24 GND
25 D6R2V_LCD
26 D6R2V_LCD
27 GND
28 D5V_LCD
29 D5V_LCD
30 GND
CP6751
CP6752
CP6753
CP6754
CP6755
CP6756
CP6757
CP6758
CP6759
CP6760
CP6761
CP6762
CP6763
CP6765
CP6766
CP6767
CP6768
CP6769
CP6770
CP6771
CP6772
HP_CH1
HP_CH2
002:B3
HP_MUTE_H
002:D5
+9V_HP
-9V_HP
HP_GND
TP6751
D5V_LCD
001:B2
KEYS[1-5]
001:B7
KEYI[1-4]
001:K2
LED[0-6]
DGND
R6753 PAT/J3 U6754
R6754 PAT/J3 U6755
R6755 PAT/J3 U6756
C6751 0.01/UBV
C6750 0.01/UBV
FG1
TG6751 EYF6CU
6764
CP
U6751 VWJ1688
FLAT_CABLE to MAIN
PAT=PATTERN ONLY
Ref No. 6750 Series.
COMPONENT NAME
FRONT (CONNECT)
03/03
CIRCUIT BOARD NO.
VEP06F56A
DRAWING NO.
KR6A0023 (3/3)
SCM017
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

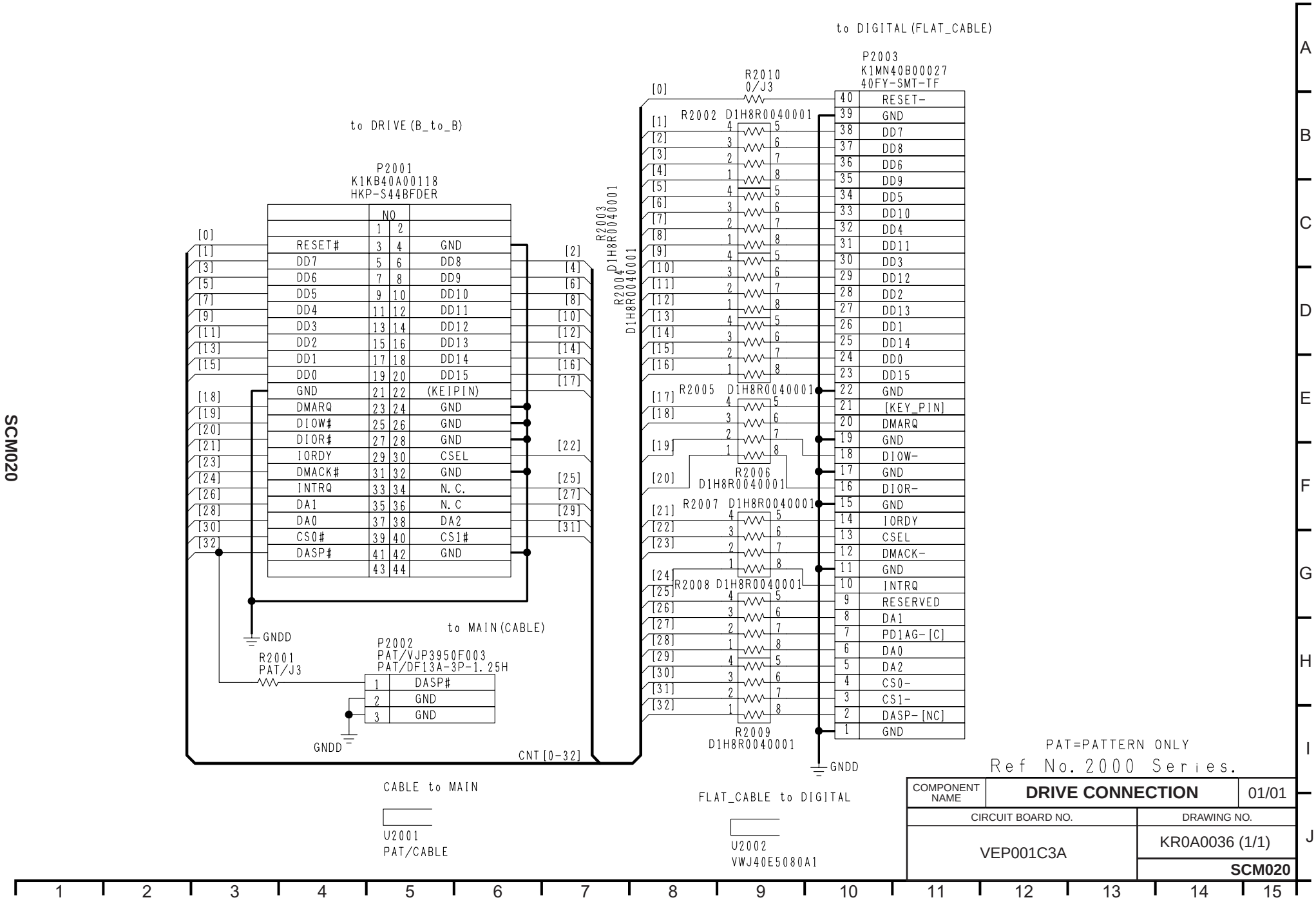

SCM018
PAT=PATTERN ONLY
Ref No. 4800 Series.
COMPONENT NAME
REAR JACK
01/01
CIRCUIT BOARD NO.
VEP04852A
DRAWING NO.
KR4A0010 (1/1)
SCM018



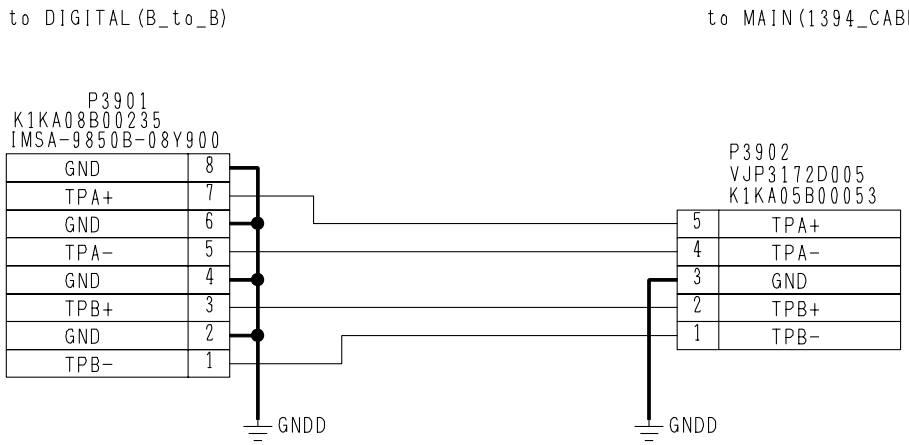
PAT=PATTERN ONLY

Ref No. 4900 Series.

COMPONENT NAME	MIC JACK	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04853A		KRA4A0011 (1/1)
		SCM019


SCM020
to DRIVE(B_to_B)
P2001
K1KB40A00118
HKP-S44BFDER
NO
RESET# GND
DD7 DD8
DD6 DD9
DD5 DD10
DD4 DD11
DD3 DD12
DD2 DD13
DD1 DD14
DD0 DD15
GND (KEIPIN)
DMARQ GND
DIOW# GND
DIOR# GND
IORDY CSEL
DMACK# GND
INTRQ N.C.
DA1 N.C
DA0 DA2
CS0# CS1#
DASP# GND
to DIGITAL(FLAT_CABLE)
P2003
K1MN40B00027
40FY-SMT-TF
R2010
0/J3
R2002 D1H8R0040001
R2003 D1H8R0040001
R2004 D1H8R0040001
R2005 D1H8R0040001
R2006 D1H8R0040001
R2007 D1H8R0040001
R2008 D1H8R0040001
R2009 D1H8R0040001
RESET-
GND
DD7
DD8
DD6
DD9
DD5
DD10
DD4
DD11
DD3
DD12
DD2
DD13
DD1
DD14
DD0
DD15
GND
[KEY_PIN]
DMARQ
GND
DIOW-
GND
DIOR-
GND
IORDY
CSEL
DMACK-
GND
INTRQ
RESERVED
DA1
PD1AG-[C]
DA0
DA2
CS0-
CS1-
DASP-[NC]
GND
GNDD
R2001
PAT/J3
to MAIN(CABLE)
P2002
PAT/VJP3950F003
PAT/DF13A-3P-1.25H
DASP#
GND
GND
GNDD
CNT[0-32]
CABLE to MAIN
U2001
PAT/CABLE
FLAT_CABLE to DIGITAL
U2002
VWJ40E5080A1
PAT=PATTERN ONLY
Ref No. 2000 Series.
COMPONENT NAME
DRIVE CONNECTION
01/01
CIRCUIT BOARD NO.
VEP001C3A
DRAWING NO.
KR0A0036 (1/1)
SCM020

SCM021



1394 CABLE to MAIN

U3901
VEE0Z32

PAT=PATTERN ONLY

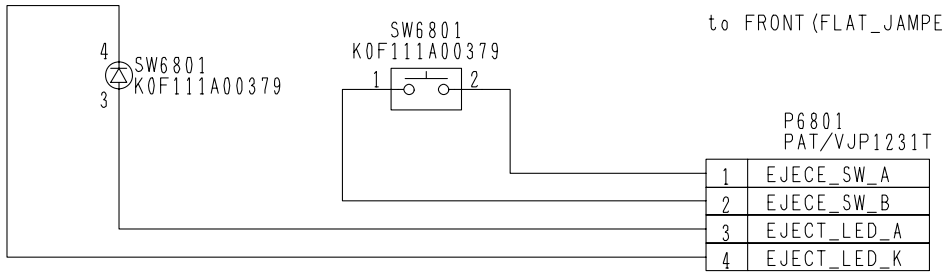
Ref No. 3900 Series.

COMPONENT NAME	DV JACK	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001C5A	KR0A0038 (1/1)	
	SCM021	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

SCM022



FLAT_JAMPER to FRONT

U6801
VWJ04D5020AA

PAT=PATTERN ONLY

Ref No. 6800 Series.

COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F57A		KR6A0024 (1/1)
		SCM022

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

SECTION 6

EXPLODED VIEWS
&
REPLACEMENT PARTS LISTS

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.

CONTENTS

CASING PARTS ASSEMBLY PRT-1

PACKING PARTS ASSEMBLY PRT-3

ELECTRICAL REPLACEMENT PARTS LIST EPL-1

CASING PARTS ASSEMBLY

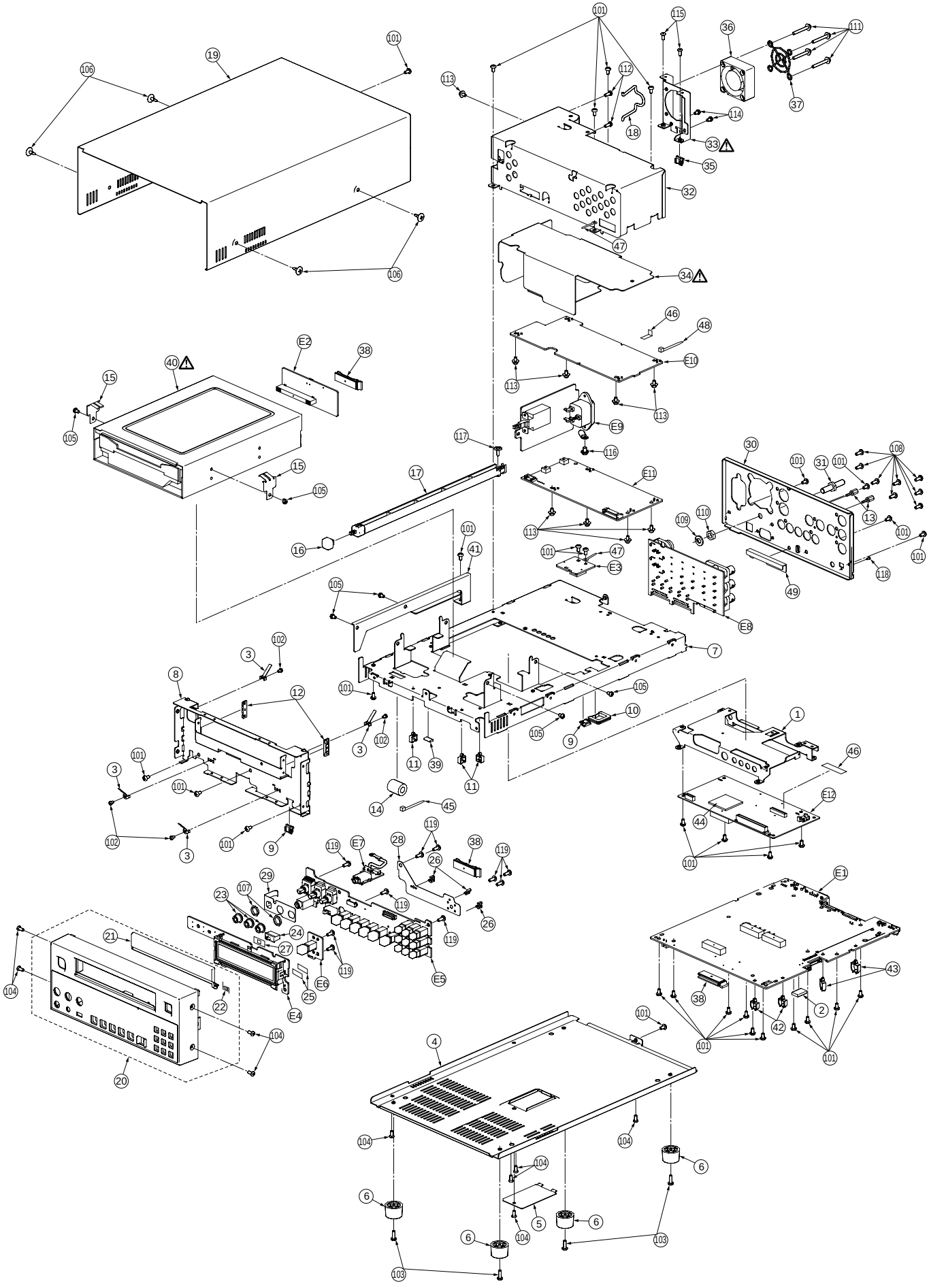
Components identified with the mark ⚠ have the special characterstics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP7928	DIGITAL ANGLE	1	
2	VMT1548	GASKET	1	
3	VMC1534	SHIELD ANGLE	4	
4	VKU0594	BOTTOM COVER	1	
5	VMP7953	BATTERY COVER	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP7872	CHASSIS	1	
8	VMP7927	FRONT CHASSIS	1	
9	VJF1007	EDGE SADDLE	2	
10	VJF1259	EDGE HOLDER	1	
11	VJF0456	BINDER	3	
12	VSC5459	FRONT EARTH ANGLE	2	
13	VMS6553	D SUB SCREW	2	
14	VLP0120	FERRITE CORE	1	
15	VSC5566	DRIVE EARTH ANGLE	2	
16	QGUG1040AA	POWER SWITCH BUTTON	1	
17	VML3838	POWER ROD	1	
18	VML2903	AC CORD HOOK	1	
19	VGM2071	FRAME	1	
20	VYP8885	FRONT PANEL U	1	
21	VKF3409	SHUTTER	1	
22	VMB3393	SHUTTER SPRING	1	
23	VGU6509	VOLUME KNOB	3	
24	VGU5582	SWITCH KNOB	1	
25	VMF0566	TAPE B	2	
26	VJF1273	CLAMPER	3	
27	VGF0687	SLIDE SW SHEET	1	
28	VMZ3446	FFC PROTECTOR	1	
29	VSC5601	VR EARTH	1	
30	VJH1241	JACK PLATE	1	
31	VJP3680	DIN PLUG	1	
32	VSC5560	POWER CASE	1	
⚠33	VMP7874	POWER FAN ANGLE	1	
⚠34	VMZ3408	INSULATION BARRIER	1	
35	VJF1007	EDGE SADDLE	1	
36	VRF0202	FAN MOTOR	1	L6FAHCBH0003
37	VGF0527	FAN GUARD	1	
38	VJF1058	CABLE CLAMPER	3	
39	VMT1549	GASKET	1	
⚠40	RD-DKL002-M	DRIVE U PACKAGE	1	
41	VMP8051	SUPPORT ANGLE	1	
42	VJF0442	MINI CLAMPER	2	
43	VJF0882	MINI CLAMPER	2	
44	VMZ3433	HEAT SINK	1	
45	VJF1157	HARNESS	1	
46	VMF0565	TAPE A	2	
47	VJF1443	CLAMPER	2	
48	VJF1158	CLAMPER	1	
49	VMP8098	BTB ANGLE	1	
50	VUVZT0256-12	TAPE	1	
101	XTB3+6F	SCREW	31	
102	XYN26+C4	SCREW	4	
103	XTB3+10FFZ	SCREW	4	
104	VHD1639FN	SCREW	9	
105	XYN3+C5	SCREW	6	
106	SNE2129	SCREW	4	
107	XNS9	NUT	2	
108	XTB3+8GFZ	SCREW	8	
109	XNG6C	NUT	1	
110	XWA6B	WASHER	1	
111	XYN3+F25FZ	SCREW	4	
112	XYN3+C8FZS	SCREW	2	
113	XYN3+F8	SCREW	9	
114	XYN3+C5	SCREW	2	
115	VHD1639FN	SCREW	2	
116	XYN4+E6VW	SCREW	1	
117	VHD0304	SCREW	1	
118	XQN16+C4FZ	SCREW	1	
119	XTB3+8G	SCREW	10	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E1	VEP06F54A	MAIN C.B.A.	1	
E2	VEP001C3A	DRIVE CONNECTION C.B.A.	1	
E3	VEP001C5A	DV JACK C.B.A.	1	
E4	VEP06F58A	LCD C.B.A.	1	
E5	VEP06F56A	FRONT C.B.A.	1	
E6	VEP06F57A	EJECT C.B.A.	1	
E7	VEP04853A	MIC JACK C.B.A.	1	
E8	VEP04852A	REAR JACK C.B.A.	1	
E9	VEP01942A	POWER 1 C.B.A.	1	
E10	VEP01943A	POWER 2 C.B.A.	1	
E11	VEP01944A	POWER 3 C.B.A.	1	
E12	VVRDDKK002P	DIGITAL C.B.A.	1	FOR LQ-MD800P
E12	VVRDDKK002E	DIGITAL C.B.A.	1	FOR LQ-MD800E

CASING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterstics for safety.
When replacing any of these components, use only the same type.



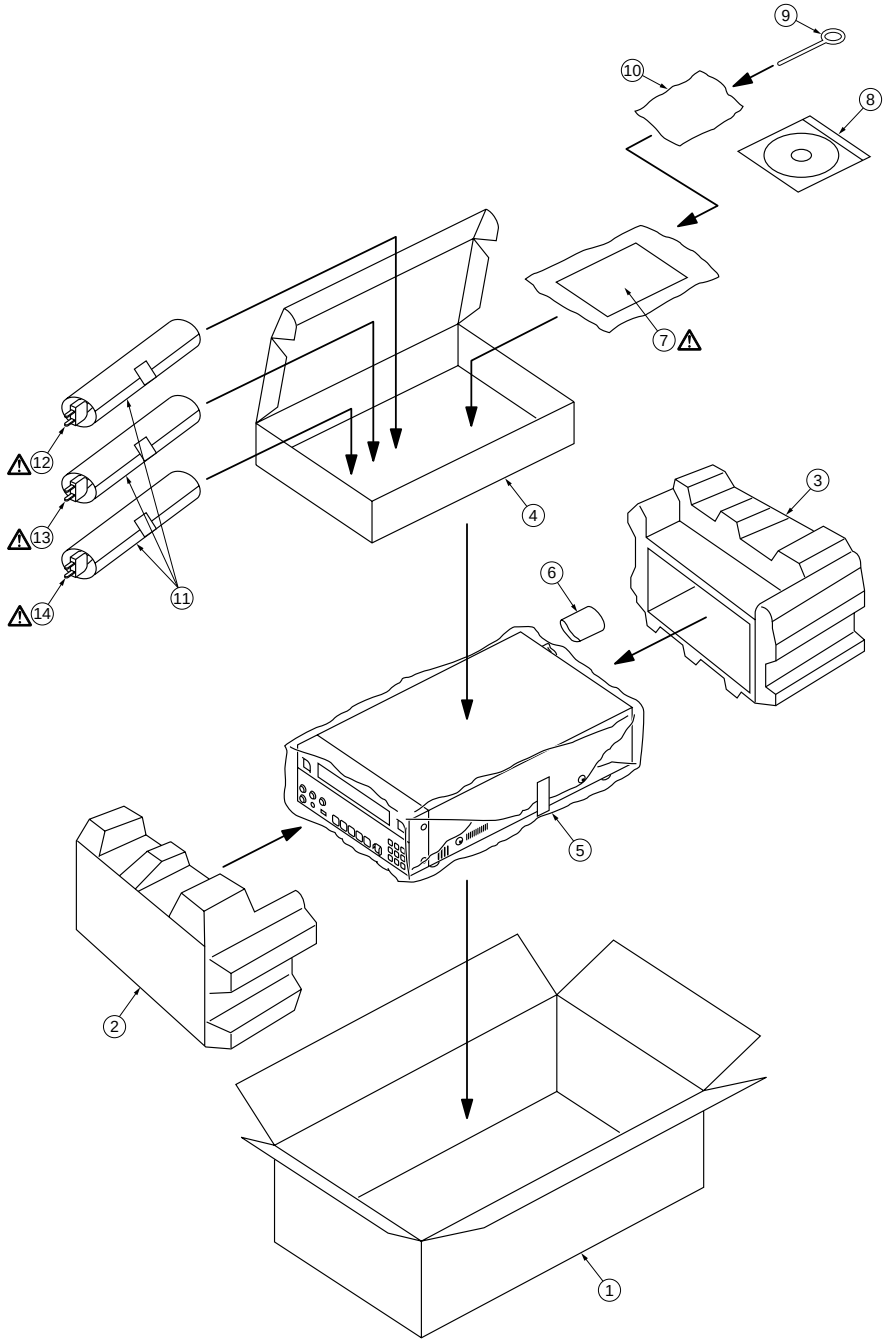
PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterstics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0W60	PACKING CASE	1	FOR LQ-MD800P
1	VPG0W61	PACKING CASE	1	FOR LQ-MD800E
2	VPN6127	CUSHION (F)	1	
3	VPN6128	CUSHION (B)	1	
4	VPN6129	ACCESSORY BOX	1	
5	VPF0884	POLYETHYLENE BAG	1	
6	VPF0892	POLYETHYLENE BAG (2)	1	
⚠7	VQT0H38	OPERATING INSTRUCTIONS	1	
⚠8	VYQ3155	OPERATING INSTRUCTIONS	1	(CD-ROM)
9	JZS0484	EJECT PIN	1	
10	VPF1016	POLYETHYLENE BAG	1	
11	VPF0136	CORD SHEET	1	
⚠12	VJA0796	POWER CODE	1	FOR LQ-MD800P
⚠13	VJA0738	POWER CODE	1	FOR LQ-MD800E
⚠14	VJA0746	POWER CODE	1	FOR LQ-MD800E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY



Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP06F54A	MAIN P.C.BOARD	1	(RTL)
■ E2	VEP001C3A	DRIVE CONNECTION P.C.B.	1	(RTL)
■ E3	VEP001C5A	DV JACK P.C.BOARD	1	(RTL)
■ E4	VEP06F58A	LCD P.C.BOARD	1	(RTL)
■ E5	VEP06F56A	FRONT P.C.BOARD	1	(RTL)
■ E6	VEP06F57A	EJECT P.C.BOARD	1	(RTL)
■ E7	VEP04853A	MIC JACK P.C.BOARD	1	(RTL)
■ E8	VEP04852A	REAR JACK P.C.BOARD	1	(RTL)
■ E9	VEP01942A	POWER 1 P.C.BOARD	1	(RTL)
■ E10	VEP01943A	POWER 2 P.C.BOARD	1	(RTL)
■ E11	VEP01944A	POWER 3 P.C.BOARD	1	(RTL)
■ E12	VVRDDKK002P	DIGITAL P.C.BOARD	1	(RTL)FOR LQ-MD800P
■ E12	VVRDDKK002E	DIGITAL P.C.BOARD	1	(RTL)FOR LQ-MD800E
■ E1	VEP06F54A	MAIN P.C.BOARD	1	(RTL)
B6651	BCR20H4	BUTTON BATTERY HOLDER	1	
BZ6651	VSQ0813	BUZZER	1	L0DCDA000001
C3001	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C3002,03	ECJ1VC1H560J	C.CAPACITOR CH 50V 560P	2	
C3004	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3005	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C3006,07	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C3008	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3009	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3010	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C3011,12	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C3014	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3015-18	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	4	
C3019	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3020	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3021,22	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3023,24	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C3025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3026	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3027	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3029	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C3030-32	EEEHB0J470	E.CAPACITOR 6.3V 47U	3	
C3033	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3035	EEEHB0J102UP	E.CAPACITOR 6.3V 1000U	1	
C3036	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C3038	EEEHB0J102UP	E.CAPACITOR 6.3V 1000U	1	
C3039	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C3041	EEEHB0J102UP	E.CAPACITOR 6.3V 1000U	1	
C3042	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C3043,44	EEEHB0J331P	E.CAPACITOR 6.3V 330U	2	
C3045	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3046	ECJ1VC1H560J	C.CAPACITOR CH 50V 560P	1	
C3048-50	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C3052-54	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C3056	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3058,59	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3062	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3067	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3068	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3069,70	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3072	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3074	ECJ1VB1C473K	C.CAPACITOR CH 16V 0.047U	1	
C3075	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3077	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3078	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3080	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3084	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3090	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3092	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3093	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3094	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C3095,96	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4001,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4003-05	EEEHP1C100R	E.CAPACITOR 16V 10U	3	
C4006	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4007	EEEHP1C100R	E.CAPACITOR 16V 10U	1	
C4008	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C4009	EEEHB1C100	E.CAPACITOR 16V 10U	1	
C4010-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C4013	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4014	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4015	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4016	EEEHB1E220P	E.CAPACITOR 25V 22U	1	
C4017	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C4018	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C4019-21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C4022,23	EEEHB1C100	E.CAPACITOR 16V 10U	2	
C4024,25	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4026,27	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4028-30	EEEHB1C100	E.CAPACITOR 16V 10U	3	
C4031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4032	EEEHB1C100	E.CAPACITOR 16V 10U	1	
C4033	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4201-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C4204,05	EEEHB1C100	E.CAPACITOR 16V 10U	2	
C4206	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4207,08	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	2	
C4209,10	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	2	
C4215,16	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4223	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4224	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4225,26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4227	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4229-31	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	3	
C4232,33	EEEHP1A330P	E.CAPACITOR 10V 33U	2	
C4234	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4235,36	EEEHP1C100R	E.CAPACITOR 16V 10U	2	
C4237,38	EEEHP1H1R0R	E.CAPACITOR 50V 1U	2	
C4239	EEEHP1A330P	E.CAPACITOR 10V 33U	1	
C6001-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6006	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6009	EEEHB1E220P	E.CAPACITOR 25V 22U	1	
C6010	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6011	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6015	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6016	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6020	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6021	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6025	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6026,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6031	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6032-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6035	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6201	EEFCD1C8R2R	E.CAPACITOR 16V 8.2U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6202	F2H1D470A004	E.CAPACITOR 20V 47U	1	
C6203	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C6205	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C6208	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6209	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6210	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6211	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6212	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6214	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6218	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6219	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6223	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6224	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6225,26	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C6227	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6228	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6230	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6231	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6234	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6235	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6237	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6243	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6244	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6245	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6247	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6248	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6249	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6250,51	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C6252	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C6253	F2H1C8200001	E.CAPACITOR CH 16V 82U	1	
C6254-56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6257	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6258,59	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6260	F1H1C104A042	C.CAPACITOR CH 16V 0.1U	1	
C6261	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6262	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6264	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6265	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6266	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6267	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6268	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6270	F1K1E1050001	C.CAPACITOR CH 25V 1U	1	
C6271,72	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C6273	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6274	ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
C6275	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C6276	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C6277	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C6278	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C6279	F2H0J2210003	E.CAPACITOR CH6.3V 220U	1	
C6280	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C6281	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6301,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6303	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6304-06	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C6308	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6310	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6311	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6312	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6313	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6316,17	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C6318	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C6319	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6320	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6321	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C6322-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6326-29	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C6330	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6331	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6332	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6334	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C6335	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6336	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C6337	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6339	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6340-43	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C6344	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C6345,46	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6347	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C6352	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6353,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6360	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6361	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6363,64	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6365	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6601,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6603	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6605,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6607	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6610	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6612	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6614	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6615	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6616	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6651,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6653	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6654	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6655-57	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
D3001	MA142K	DIODE	1	
D4001	MA142WA	DIODE	1	
D4002	MA716	DIODE	1	
D4202,03	MA716	DIODE	2	
D4204-06	MA142WA	DIODE	3	
D6010	MA8039-L	DIODE	1	
D6011	MA716	DIODE	1	
D6201-03	SFPB-76V	DIODE	3	
D6204	MA142WA	DIODE	1	
D6270	MA720	DIODE	1	
D6271	SFPB-76V	DIODE	1	
D6301	MA716	DIODE	1	
D6651	MA704WK	DIODE	1	
D6652,53	MA142K	DIODE	2	
IC3001	C9ZB00000377	VIDEO BUFFER	1	
IC3002	C1AB00001805	IC	1	
IC4001	NJM78L09UA	IC	1	C0CBAHC00002
IC4002	THC4052FT	IC	1	
IC4003	NJM79L09UA	IC	1	C0CABBF00001
IC4004	C0ABBB000184	IC	1	
IC4005	C0CBBDB00004	IC	1	
IC4006,07	C0ABBB000184	IC	2	
IC4008	C0CBBDB00004	IC	1	
IC4009,10	C0ABBB000184	IC	2	
IC4201,02	C0ABBB000184	IC	2	
IC4203	C0JBAS000075	IC	1	
IC4205-07	C0ABBB000184	IC	3	
IC4209	C0JBAS000075	IC	1	
IC4210	C0ABBB000184	IC	1	
IC6002	NJM431U	IC	1	C0DBEZC00003
IC6003	C0JBAN000108	IC	1	
IC6005,06	TVHT374FT	IC	2	
IC6009	C0ABBA000071	IC	1	
IC6010	C0JBAE000135	IC	1	
IC6011	C0ABBA000071	IC	1	
IC6012	NJM78L09UA	IC	1	C0CBAHC00002
IC6013	NJM79L09UA	IC	1	C0CABBF00001
IC6201	C0DBZHE00014	IC	1	
IC6202	C0DBEFG00002	IC	1	
IC6203	C0DBZHE00014	IC	1	
IC6205	C0DBZFG00012	IC	1	
IC6206	C0DBZHG00012	IC	1	
IC6207	C0DBZGG00010	IC	1	
IC6208	C0DBZHE00014	IC	1	
IC6209	C0DBAZF00003	IC	1	
IC6210	C0DBEZG00010	IC	1	
IC6211	C0DBZHE00014	IC	1	
IC6270	C0DBAGH00030	IC	1	
IC6301	C0EBE0000233	IC	1	
IC6302	C0ZBZ0000837	IC	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC6303	C0EBF0000182	IC	1	
IC6313	C0JBAB000553	IC	1	
IC6315	C0JBAR000282	IC	1	
IC6316	C3ZBF0000011	IC	1	
IC6317	TC7SZ126FU	IC	1	
IC6320	C0EBE0000130	IC	1	
IC6601	C0JBAZ001121	IC	1	
IC6603-05	TVHT541FT	IC	3	
IC6606	C0DBZHE00014	IC	1	
IC6611	TC7SZ126FU	IC	1	
IC6651	C0BBBA000030	IC	1	
ID6309	VVVSI4199C	SOFTWARE	1	DOWNLOAD ONLY
IP6309	C2CBJH000056	IC	1	
J6201,02	K4CD01000007	CABLE TERMINAL	2	
J6203	VJR1008	CABLE TERMINAL	1	
J6204,05	K4CD01000007	CABLE TERMINAL	2	
J6207	K2HZ104B0006	JACK	1	
J6208-11	K4CD01000007	CABLE TERMINAL	4	
J6301	VJJ0526	JACK	1	K2HC103B0047
J6302	K1FA104B0011	CONNECTOR (MALE)	1	
L3001	VLQ0163J120	COIL 12UH	1	G1C120J00001
L3002,03	VLQ0163J6R8	COIL 6.8UH	2	G1C6R8J00007
L3004	VLQ0163J4R7	COIL 4.7UH	1	G1C4R7J00004
L3005	VLQ0163J120	COIL 12UH	1	G1C120J00001
L3006	VLQ0163J220	COIL 22UH	1	
L3007-10	VLQ0163J120	COIL 12UH	4	G1C120J00001
L3011	VLQ0163J220	COIL 22UH	1	
L3012,13	VLQ0163J4R7	COIL 4.7UH	2	G1C4R7J00004
L3014,15	J0JHC0000032	FILTER	2	
L3016-18	VLQ0163J4R7	COIL 4.7UH	3	G1C4R7J00004
L3019,20	J0JHC0000032	FILTER	2	
L4001,02	J0JHC0000032	FILTER	2	
L4003	J0JCC0000063	FILTER	1	
L4005,06	J0JCC0000063	FILTER	2	
L4008	J0JCC0000063	FILTER	1	
L4010	J0JCC0000063	FILTER	1	
L4011	J0MAB0000155	FILTER	1	
L4012,13	J0JHC0000032	FILTER	2	
L6002,03	J0JHC0000032	FILTER	2	
L6004,05	J0JCC0000063	FILTER	2	
L6014	J0JHC0000032	FILTER	1	
L6015-17	J0JCC0000063	FILTER	3	
L6201-04	VLP0183	COIL	4	J0JKC0000007
L6206,07	J0JHC0000032	FILTER	2	
L6209	G1A330F00004	COIL 33UH	1	
L6210	G1A680E00002	COIL 68UH	1	
L6211	G1A330F00004	COIL 33UH	1	
L6212,13	J0JHC0000032	FILTER	2	
L6270	J0JBC0000023	FILTER	1	
L6271	G1A4R7H00002	COIL 4.7UH	1	
L6272	J0JKC0000009	FILTER	1	
L6273	VLQ0859M220	COIL 22UH	1	
L6274	G1A4R7H00002	COIL 4.7UH	1	
L6301	J0JHC0000032	FILTER	1	
L6302	J0MAB0000140	FILTER	1	
L6303	J0JHC0000032	FILTER	1	
L6305-08	J0JHC0000032	FILTER	4	
P4001	K1KA05A00235	CONNECTOR (MALE)	1	
P4002	K1KA08A00301	CONNECTOR (MALE)	1	
P6003	VJS3791B030	CONNECTOR (FEMALE)	1	
P6201,02	K1KB20B00033	CONNECTOR (FEMALE)	2	
P6203	VJP3926B022	CONNECTOR (MALE)	1	
P6204-06	K1KA30A00204	CONNECTOR (MALE)	3	
P6208	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P6301	VJS3365B009	CONNECTOR (FEMALE)	1	K1FB209B0009
P6302,03	VJP3950A006	CONNECTOR (MALE)	2	
Q3001	2SC3930	TRANSISTOR	1	
Q3002-04	2SB1218A-R	TRANSISTOR	3	
Q3005	2SA1532-B	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3006	2SB1218A-R	TRANSISTOR	1	
Q3007,08	2SD1819A-R	TRANSISTOR	2	
Q4001-03	2SD1819A-R	TRANSISTOR	3	
Q4201	2SB1218A-R	TRANSISTOR	1	
Q4202-06	2SD1328-S	TRANSISTOR	5	
Q6201	B1DHED000008	TRANSISTOR	1	
Q6270,71	B1DFFD000006	FET	2	
Q6651-53	2SD1819A-R	TRANSISTOR	3	
QR3001-05	UNR521300L	TRANSISTOR	5	
QR3006,07	UNR521100L	TRANSISTOR	2	
QR3008	UNR521300L	TRANSISTOR	1	
QR3009	UNR521100L	TRANSISTOR	1	
QR4001-03	UNR521100L	TRANSISTOR	3	
QR4201-06	UNR521100L	TRANSISTOR	6	
QR6010	UNR521100L	TRANSISTOR	1	
QR6202-06	UNR521100L	TRANSISTOR	5	
QR6301	UNR521400L	TRANSISTOR-RESISTOR	1	
QR6302,03	UNR511200L	TRANSISTOR	2	
QR6601	UNR521400L	TRANSISTOR-RESISTOR	1	
QR6602	UNR511400L	TRANSISTOR-RESISTOR	1	
QR6651	UN5212	TRANSISTOR-RESISTOR	1	
QR6652	UNR511200L	TRANSISTOR	1	
R3001-05	ERJ3RBD561	M.RESISTOR CH 1/16W 560	5	
R3006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3008,09	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R3011-13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	3	
R3014	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3015-17	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3018	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3019	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3020,21	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3022	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3023,24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3025,26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3027,28	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R3029,30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3031,32	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R3033,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3035,36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3037	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R3038,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3041	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3043	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3052	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3053	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3054	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3056	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3057	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3061,62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3081	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3082	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3083	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3087	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3088,89	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R3094	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R3096	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3098	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3099	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4001	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4003,04	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R4005	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4006	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4008	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4009,10	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	2	
R4013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4016,17	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R4019	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4023	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4025	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4026	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4027	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4030	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4032,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4034,35	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	2	
R4036,37	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4038,39	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4040,41	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	2	
R4042,43	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4044,45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4046	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R4047,48	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4049,50	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	2	
R4201-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4204-07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4208	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4209,10	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4211,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4213,14	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4215,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4217,18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4221,22	ERJ3RBD163	M.RESISTOR CH 1/16W 16K	2	
R4223-28	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	6	
R4229	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4230-34	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	5	
R4235,36	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R4237,38	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4239	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4240,41	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4242,43	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4244-46	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R4247,48	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4249	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R4250	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4251	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R4252	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4253	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R4254-56	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R4257-59	ERJ3RBD121	M.RESISTOR CH 1/16W 120	3	
R4266,67	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R4268	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6008,09	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R6011	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6016-19	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R6020	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6023	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R6028-30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6031	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6036	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6039	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6040,41	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6042	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6045,46	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6052	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6057,58	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R6059	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R6060	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6063	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R6070-72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R6073	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6074	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6201	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6205,06	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R6209	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6210	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R6212	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6216	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R6217	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6218	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R6219,20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R6223	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R6224	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6225	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R6226	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R6229,30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R6231	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R6232	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6233	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6270-72	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6273	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R6274	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R6275	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6276	VRE0202H15M	M.RESISTOR CH 100K	1	
R6278	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6279	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6281,82	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6301	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R6304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6307	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6311	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6312	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6318	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6321	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6322,23	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	2	
R6324	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6325,26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6327	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6328-30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6331	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6332-34	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6335	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6336	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6337	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6338	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6339,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6341	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6343	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6344	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6345-47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6348-50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R6351	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6352	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6353,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6355	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6356	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R6357-59	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6361	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6362	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6363	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6364	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6365	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6366	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6367	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6368	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6369	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6370	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6371	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6372	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6373	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6374	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6375	D1H84704A008	COMBI.R-R 47	1	
R6376,77	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R6378	D1H84704A008	COMBI.R-R 47	1	
R6379	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6380	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6381	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6383-87	D1H8R0040001	COMBI.R-R 0	5	
R6389	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6391,92	D1H8R0040001	COMBI.R-R 0	2	
R6393	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6394	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6400-02	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	3	
R6403	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6404,05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6406,07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6408	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6410,11	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R6412	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6413-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6416,17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6418	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6419	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6420	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6421	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6423	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R6424	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R6601	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6603	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6604	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6605	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6606	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6607	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6609	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6610	D1H84704A008	COMBI.R-R 47	1	
R6611	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6612	D1H84704A008	COMBI.R-R 47	1	
R6613-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R6616	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6618-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R6623	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6627	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6637	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6638	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6639	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6640	D1H84704A008	COMBI.R-R 47	1	
R6643	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6644	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6645	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6646	ERJ8GEYJ331	M.RESISTOR CH 1/8W 330	1	
R6648	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6649	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6651	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6652	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R6653-55	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	3	
R6656	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6657,58	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	2	
R6660	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R6661	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6662,63	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	2	
R6664	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6665	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6666	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6667	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
SW6302	VSS0367-06B	SWITCH	1	K0D161A00001
TG3001	EYF6CU	TEST POINT	1	
TG4001	EYF6CU	TEST POINT	1	
TG6201-05	EYF6CU	TEST POINT	5	
U6301	VEE0Z27	CABLE 1	1	
U6651	CR2032	BATTERY	1	
X6301	H0J160500045	CRYSTAL OSCILLATOR	1	
X6302	H1Z3272B0006	CRYSTAL OSCILLATOR	1	
■ E2	VEP001C3A	DRIVE CONNECTION P.C.B.	1	(RTL)
P2001	K1KB40A00118	CONNECTOR (FEMALE)	1	
P2003	K1MN40B00027	CONNECTOR	1	
R2002-09	D1H8R0040001	COMBI.R-R 0	8	
R2010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
U2002	VWJ40E5080A1	FLEX. CABLE	1	
■ E3	VEP001C5A	DV JACK P.C.BOARD	1	(RTL)
P3901	K1KA08B00235	CONNECTOR (MALE)	1	
P3902	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
U3901	VEE0Z32	DV CABLE	1	
■ E4	VEP06F58A	LCD P.C.BOARD	1	(RTL)
C6501-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C6505	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6506	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C6508	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6510	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6514,15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C6516	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C6517-20	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
D6504	B3ACB0000013	LED	1	
D6505,06	LN1351C	DIODE	2	
DP6501	L5ACAKC00002	LCD PANEL	1	
IC6501,02	C0JBAQ000168	IC	2	
IC6503	C0HBA0000152	LCD DRIVER	1	
JP6501,02	K4ZZ01000199	TERMINAL	2	
L6501-03	J0JCC0000063	FILTER	3	
P6501	K1KB40A00013	CONNECTOR (FEMALE)	1	
P6502	VJP3950F003	CONNECTOR	1	
QR6501-07	UNR521400L	TRANSISTOR-RESISTOR	7	
QR6511-13	UNR521400L	TRANSISTOR-RESISTOR	3	
R6501-06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R6513	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6515	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6517-26	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	10	
R6530	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6531	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	1	
R6535-37	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	3	
R6538,39	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R6540	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
TG6501	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	VJF1487	LCD HOLDER R	1	
	VJF1488	LCD HOLDER L	1	
	A4LZFC000003	BACK LIGHT	1	
■ E5	VEP06F56A	FRONT P.C.BOARD	1	(RTL)
C4701-05	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	5	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4706,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C4708,09	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6750,51	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
D6701-17	MA142K	DIODE	17	
IC4700	C0ABBB000184	IC	1	
J4701	VJJ0571	JACK	1	
L4702-05	J0JCC0000063	FILTER	4	
P4701	VJP3950F008	CONNECTOR (MALE)	1	
P6751	K1KB40A00106	CONNECTOR (FEMALE)	1	
P6752	K1MN30B00085	CONNECTOR	1	
Q4701,02	2SD1328-S	TRANSISTOR	2	
R4701,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4703,04	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4705,06	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R4707,08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R6701-07	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	7	
SW6701,02	VSP0864A000	SWITCH	2	K0F111A00243
SW6703,04	VSP0853A000	SWITCH	2	K0F111A00235
SW6705	K0F111A00464	SWITCH	1	
SW6706	VSP0864A000	SWITCH	1	K0F111A00243
SW6707	VSP0864E000	SWITCH	1	K0F111A00275
SW6708-10	VSP0853A000	SWITCH	3	K0F111A00235
SW6711	VSP0864A000	SWITCH	1	K0F111A00243
SW6712-14	VSP0853A000	SWITCH	3	K0F111A00235
SW6715	VSP0864A000	SWITCH	1	K0F111A00243
SW6716	VSS0250	SWITCH	1	K0D112A00104
TG6751	EYF6CU	TEST POINT	1	
U4701	VEE0Z06	LINE INPUT CABLE	1	
U6751	VWJ1688	FRONT CABLE	1	
VR4701	D2BGC24Z0001	V.RESISTOR 20K	1	
VR4702,03	D2BEA5310002	V.RESISTOR 5K	2	
■ E6	VEP06F57A	EJECT P.C.BOARD	1	(RTL)
SW6801	K0F111A00379	SWITCH	1	
U6801	VWJ04D5020AA	FLEX. CABLE	1	
■ E7	VEP04853A	MIC JACK P.C.BOARD	1	(RTL)
C4901-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	3	
C4904	EEEHB1C100	E.CAPACITOR 16V 10U	1	
C4905	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C4906	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4907,08	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
IC4901	C0ABBB000184	IC	1	
J4901	K2HC103B0155	JACK	1	
L4901	J0JCC0000063	FILTER	1	
L4903	J0JCC0000063	FILTER	1	
P4901	VJP3950F005	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4901	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
R4902,03	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	2	
R4904	ERJ3RBD163	M.RESISTOR CH 1/16W 16K	1	
R4905	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
U4901	VEE0Z07	POWER CABLE U	1	
U4902	VEE9862	EARTH CABLE	1	
		MISCELLANEOUS		
	VMP7875	MIC ANGLE	1	
■ E8	VEP04852A	REAR JACK P.C.BOARD	1	(RTL)
C4801-05	D4ED1220A006	VARISTOR	5	
C4806-09	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4811	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C4826	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4828-37	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	10	
D4801	MA157A	DIODE	1	
D4806,07	MA157A	DIODE	2	
D4809-11	MA157A	DIODE	3	
J4801	K2HA308A0001	JACK	1	
J4802	K2HA205A0004	JACK	1	
J4803	K1QBB1AA0011	CONNECTOR (FFMALE)	1	
J4804,05	K4BA04A00002	TERMINAL	2	
J4807	YWP2284	CONNECTOR	1	
J4808	K1QBB1AA0011	CONNECTOR (FFMALE)	1	
L4801	J0JCC0000063	FILTER	1	
L4803-11	J0JCC0000063	FILTER	9	
L4813-16	J0JCC0000063	FILTER	4	
L4820	J0JCC0000063	FILTER	1	
P4801,02	K1KA20B00113	CONNECTOR (MALE)	2	
Q4801	2SB1218A-R	TRANSISTOR	1	
R4802-06	ERJ3RED750	M.RESISTOR CH 1/16W 75	5	
R4808,09	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R4811	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R4814,15	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R4816	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4817	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4819	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
■ E9	VEP01942A	POWER 1 P.C.BOARD	1	(RTL)
⚠ C1001	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ F1001,02	VSF0106C25H	FUSE	2	
FH1001-04	EYF52BC	FUSE HOLDER	4	
⚠ L1001	ELF19N010A	COIL 1UH	1	
L1002,03	VLP0083	COIL	2	J0JKB0000011
⚠ P1001	VJS2985	CONNECTOR (FEMALE)	1	K2AH3H000012
P1002	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
⚠ R1001	ERC12AGM334C	S.RESISTOR 1/2W 33K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ SW1001	K0ADKF000003	POWER SWITCH	1	
U1001	VEE8828	CABLE	1	
■ E10	VEP01943A	POWER 2 P.C.BOARD	1	(RTL)
⚠ C1101,02	ECQU2A224ML	P.CAPACITOR 100V 0.22U	2	
⚠ C1103,04	VCK0262K221A	C.CAPACITOR 220P	2	F1BAH2210001
⚠ C1106	F1BAH331A004	C.CAPACITOR 330P	1	
C1107	EETHC2W221K	E.CAPACITOR 450V 220U	1	
C1108	EEUEB1H470B	E.CAPACITOR 50V 47U	1	
C1109,10	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1112	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1114,15	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1116	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C1117	EEUFC1E331	E.CAPACITOR 25V 330U	1	
C1118,19	EEUFC1A331	E.CAPACITOR 10V 330U	2	
C1121,22	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
⚠ C1123	F1BAH331A004	C.CAPACITOR 330P	1	
C1127	EEUEB1H1R0SB	E.CAPACITOR 50V 1U	1	
C1128,29	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1130-32	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	3	
D1101	D3SBA60	DIODE	1	B0EBNR000007
D1102,03	B0ECKR000003	DIODE	2	
D1104	SFPL-52	DIODE	1	
D1105,06	MA152K	DIODE	2	
IC1101	C0DBZGH00001	IC	1	
IC1102	M51945BL	IC	1	C0EAB0000004
⚠ IC1103	ETXMM490X4C	POWER MODULE	1	
JP1101-04	VJR1008	EARTH LUG	4	
⚠ L1101,02	ELF19N010A	COIL 1UH	2	
L1103	J0JKC0000009	FILTER	1	
L1108-10	VLQ0655M3R3	COIL 3.3UH	3	
P1101	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
⚠ PC1101	PC111LY1	PHOTO COUPLER	1	
R1101	ERU5TEK2R2	F.RESISTOR 5W 2.2	1	
R1102,03	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	D0GD221JA003
R1104-07	ERJ12NF1503	M.RESISTOR CH 1/2W 150K	4	
R1108	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1109	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R1110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1111	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1112	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1120	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1121	ERJ14YJ102	M.RESISTOR CH 1/4W 1K	1	
R1122	ERJ14YJ562	M.RESISTOR CH 1/4 5.6K	1	
R1124	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
U1101	VEE0Z00	POWER 2 CABLE U	1	
		MISCELLANEOUS		
⚠	VMZ1686	CAPACITOR COVER	4	
	VEE0Z02	AC CABLE U	1	
■ E11	VEP01944A	POWER 3 P.C.BOARD	1	(RTL)
C1202	ECA1CHG101	E.CAPACITOR 16V 100U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1208	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1212	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1215-17	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	3	
C1219,20	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1222-26	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	5	
C1232-34	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C1235,36	ECA1CHG101	E.CAPACITOR 16V 100U	2	
C1237	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1301	ECA1EHG470	E.CAPACITOR 25V 47U	1	
C1302-05	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	4	
C1306,07	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C1308	ECA1HHG100	E.CAPACITOR 50V 10U	1	
C1309	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1310	ECA1EHG470	E.CAPACITOR 25V 47U	1	
C1311	ECA1HHG3R3	E.CAPACITOR 50V 3.3U	1	
C1312	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1313	ECA1HHG100	E.CAPACITOR 50V 10U	1	
C1314	ECA1CHG101	E.CAPACITOR 16V 100U	1	
C1315	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
D1203	MA152WA	DIODE	1	
D1207,08	DE5SC4M-4061	DIODE	2	B0JDRE000001
D1212,13	DE5SC4M-4061	DIODE	2	B0JDRE000001
D1214	SFPB-76V	DIODE	1	
D1301	MA152WK	DIODE	1	
D1305	MA152K	DIODE	1	
D1306	MA152WA	DIODE	1	
D1307	MA8062-M	DIODE	1	
D1309	MA152K	DIODE	1	
D1310	MA152WK	DIODE	1	
D1311	MA8180-M	DIODE	1	
D1312,13	MA8082-H	DIODE	2	
D1315,16	MA152WK	DIODE	2	
D1317	MA8051-M	DIODE	1	
D1318	MA8062-M	DIODE	1	
D1320,21	MA152K	DIODE	2	
D1322	MA720	DIODE	1	
D1323	MA152K	DIODE	1	
IC1301	AN1431M	IC	1	
IC1302	C0BBBA000019	IC	1	
JP1201-04	VJR1008	EARTH LUG	4	
L1201	G1C100KA0002	COIL 10UH	1	
L1203	VLQ0655K220	COIL 22UH	1	
L1301	G1C100KA0002	COIL 10UH	1	
P1201	K1KA10A00217	CONNECTOR (MALE)	1	
P1202	VJP3926B022	CONNECTOR (MALE)	1	
P1203	K1KA04B00056	CONNECTOR (MALE)	1	
P1207	VJP1243T	CONNECTOR (MALE) 3P	1	K1KA03B00012
Q1201	B1DHED000008	TRANSISTOR	1	
Q1203	B1DHED000008	TRANSISTOR	1	
Q1205	2SD1119-R	TRANSISTOR	1	
Q1301-04	XN0440100L	TRANSISTOR	4	
Q1305	XN4501	TRANSISTOR-RESISTOR	1	
Q1307	XN4501	TRANSISTOR-RESISTOR	1	
QR1202	UN2211	TRANSISTOR-RESISTOR	1	
QR1204	UN2211	TRANSISTOR-RESISTOR	1	
QR1302	UNR211L00L	TRANSISTOR-RESISTOR	1	
QR1303	UN2111	TRANSISTOR-RESISTOR	1	
QR1304-06	UN2211	TRANSISTOR-RESISTOR	3	
QR1307	UN2111	TRANSISTOR-RESISTOR	1	
R1201	ERJL1WKJ50M	M.RESISTOR CH 1W	1	
R1202,03	ERJL1WKJ39M	M.RESISTOR CH 1W	2	
R1207	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R1209	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1211	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1213	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1217	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1221	ERJL1WKJ39M	M.RESISTOR CH 1W	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1224,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1230	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1232,33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1237	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1238	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1239	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1301	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1303	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1304	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1305	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1307	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1308	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1309	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1310	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1312	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1313	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1314	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1315	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1317,18	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R1323	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1324,25	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R1329	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1330,31	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	2	
R1332	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1333	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1334	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1335	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1336	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1337	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1338	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1341	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1342	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1343	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1344	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1345	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1347,48	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R1349	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1351	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1352	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
U1201	VEE0Y99	POWER 1 CABLE U	1	
U1202	VEE0Z05-1	RAM CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

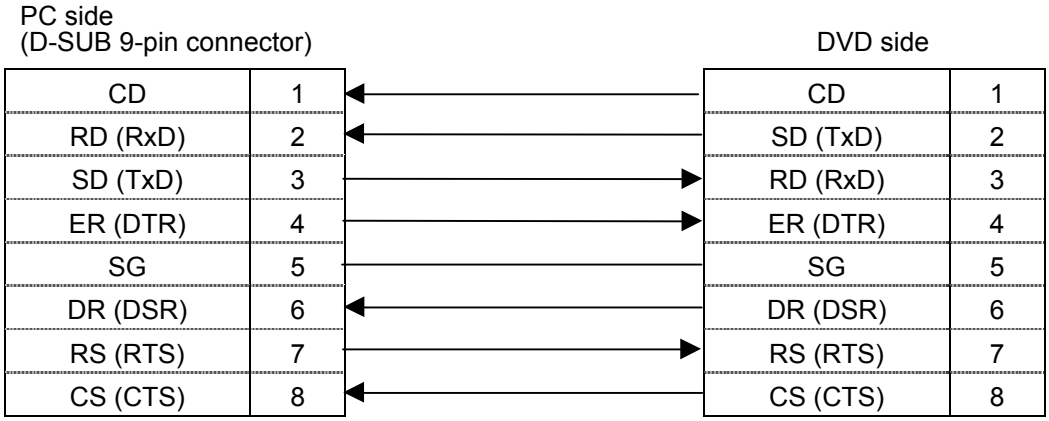
1. EVR ADJUSTMENT PROCEDURE

1-1. PREPARATION

Adjust the Electrical Adjustment using EVR adjustment software (VFK1912).
Adjust by the following procedure.

Items required for EVR adjustment

EVR adjustment software …….. VFK1912
Personal computer compatible with Windows
RS-232C cable (D-SUB 9-pin straight cable)

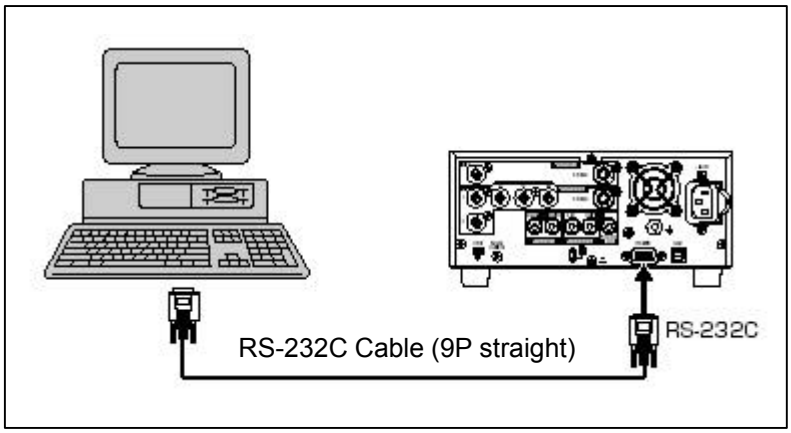


1-2. The connection and the communication setting procedure

1. Set the communication setting for the RS-232C as follow.

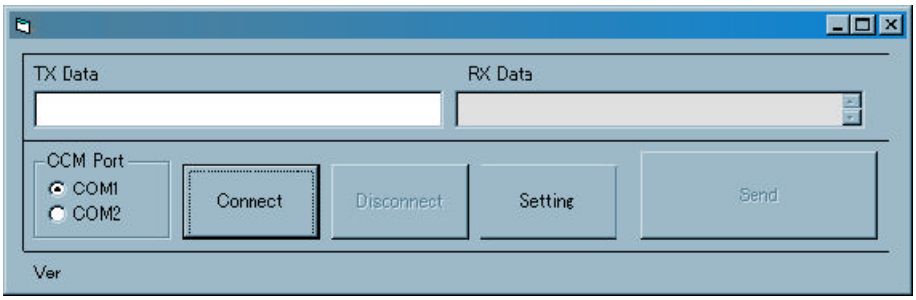
Baud Rate	9600
Bit Length	8 bit
Stop bit	1 bit
Party	None
Protocol	DVD

2. Turn off the power for the LQ-M800 and personal computer.
   Connect the RS-232C terminal on the LQ-MD800 and COM1 port on personal computer by RS-232C cable.
3. Turn on the power for the LQ-M800 and personal computer.

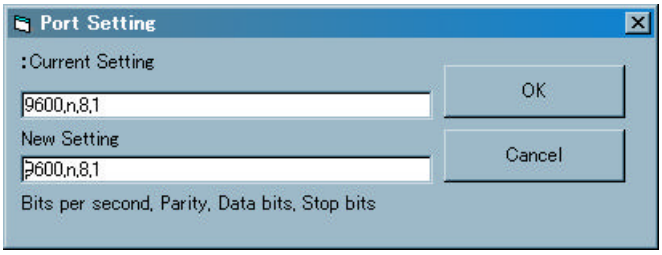


1-3. The start-up of the EVR adjustment software

1. Copy downloaded EVR adjustment software into the personal computer.
2. Execute the MD800EVR.exe so that the following screen appears.



3. Press the “Setting” button so that the following appears.
4. Select “New Setting” and input “9600,n,8,1”, and click “OK”.



5. Input command [$VA : C : “command” : “parameter”] of each adjustment in “TX Date” box, and click “OK”.
6. Adjustment value changes by changing a parameter.

<Example>

2-1. EE Y OUT Level Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CSY PARAMETER : C8 ~ 00 ~ 38
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	EE
M.EQ	Oscilloscope
SPEC.	Y=1.0 ± 0.02Vp-p

1).Input “$VA:C:CSY:00” and click “OK”.

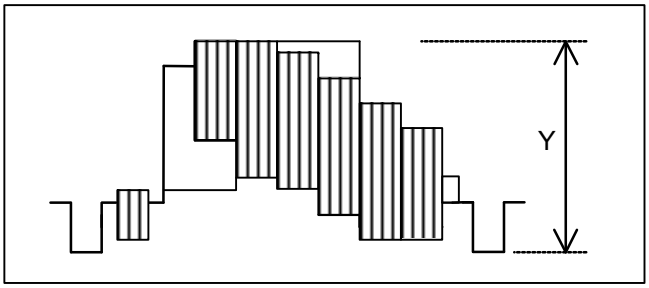
2).Change a parameter between “C8” and “38”.

2. ADJUSTMENT

2-1. EE Y OUT Level Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CSY PARAMETER : C8 ~ 00 ~ 38
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	EE
M.EQ	Oscilloscope
SPEC.	Y=1.0 ± 0.02Vp-p

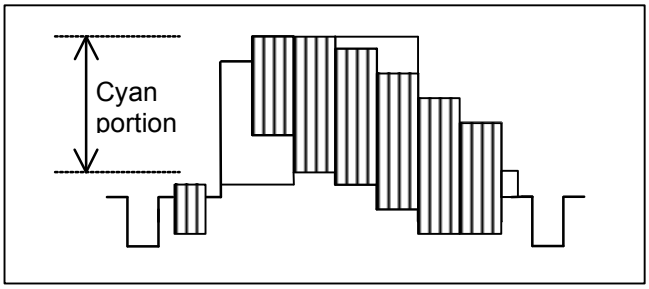
1. Set the input select to V (Video).
2. Adjust with EVR software so that the Y level is within specification.



2-2. EE C OUT Level Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CRM PARAMETER : B8 ~ 00 ~ 48
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	EE
M.EQ	Oscilloscope
SPEC.	NTSC : C = 0.63 ± 0.03Vp-p PAL : C = 0.88 ± 0.04Vp-p

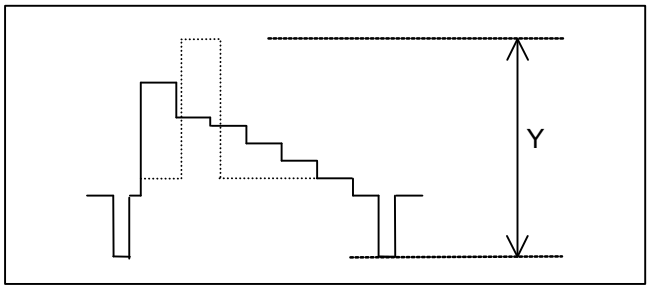
1. Set the input select to V (Video).
2. Adjust with EVR software so that the Cyan portion of C level is within specification.



2-3. Component Y Level Adjustment

BOARD	MAIN C.B.A.
TP	Y OUT
ADJ.	Remote operation by RS-232C control COMMAND : CNY PARAMETER : C8 ~ 00 ~ 38
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	Y =1.0 ± 0.02Vp-p

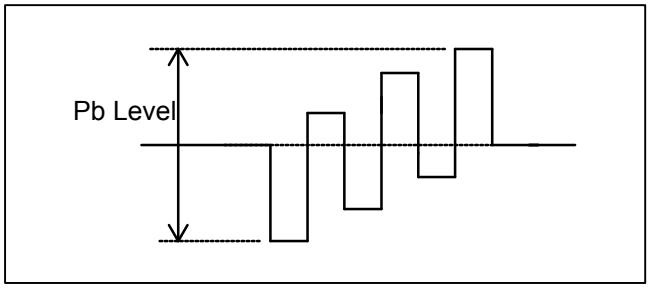
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the Y level is within specification.



2-4. Pb Level Adjustment

BOARD	MAIN C.B.A.
TP	Pb OUT
ADJ.	Remote operation by RS-232C control COMMAND : CBR PARAMETER : B8 ~ 00 ~ 48
SIGNAL	NTSC : 75% Color Bar signal with 7.5% Setup PAL : 100% Color Bar signal
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	NTSC : Pb Level =0.486 ± 0.025Vp-p PAL : Pb Level =0.7 ± 0.035Vp-p

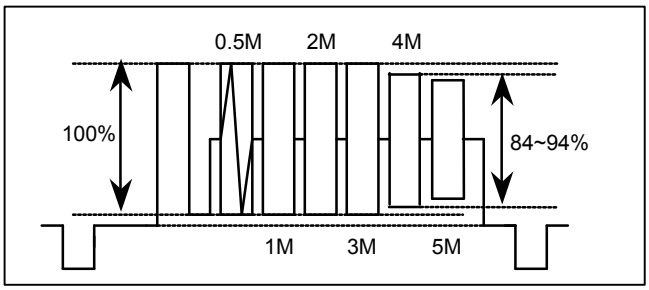
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the Pb level is within specification.



2-5. Composite Frequency Characteristic Adjustment

BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : CSF PARAMETER : FB ~ 00 ~ 05
SIGNAL	60IRE MULTI BURST SIGNAL or MULTIBURST SIGNAL or VIDEO SWEEP
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	4MHz portion : -1.0 ± 0.5dB of the 100kHz portion

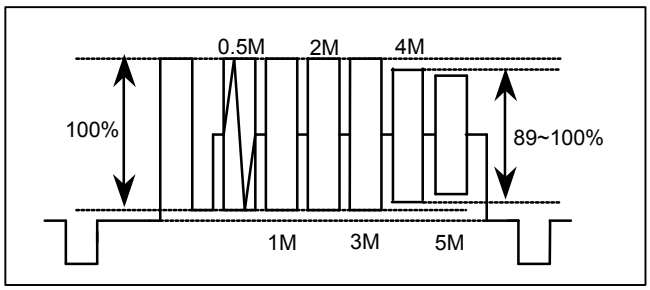
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the 4MHz portion is within specification.



2-6. Component Frequency Characteristic Adjustment

BOARD	MAIN C.B.A.
TP	Y OUT
ADJ.	Remote operation by RS-232C control COMMAND : CNF PARAMETER : FB ~ 00 ~ 05
SIGNAL	60IRE MULTI BURST SIGNAL or MULTIBURST SIGNAL or VIDEO SWEEP
MODE	SELF-REC/PLAY (XP mode)
M.EQ	Oscilloscope
SPEC.	4MHz portion : -0.5 ± 0.5dB of the 100kHz portion

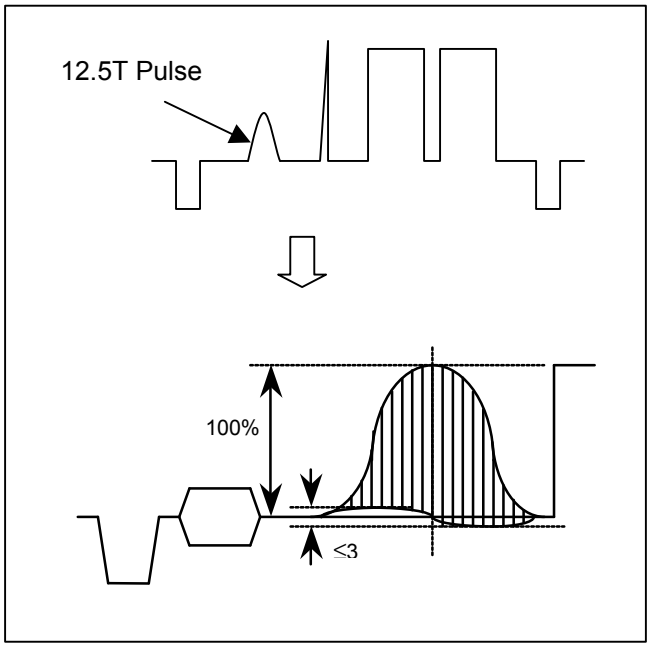
1. Record a moving image by the XP mode in advance on the recording disk.
2. Play back the recorded disk, adjust with EVR software so that the 4MHz portion is within specification.



2-7. Composite Y/C Signal Timing Adjustment

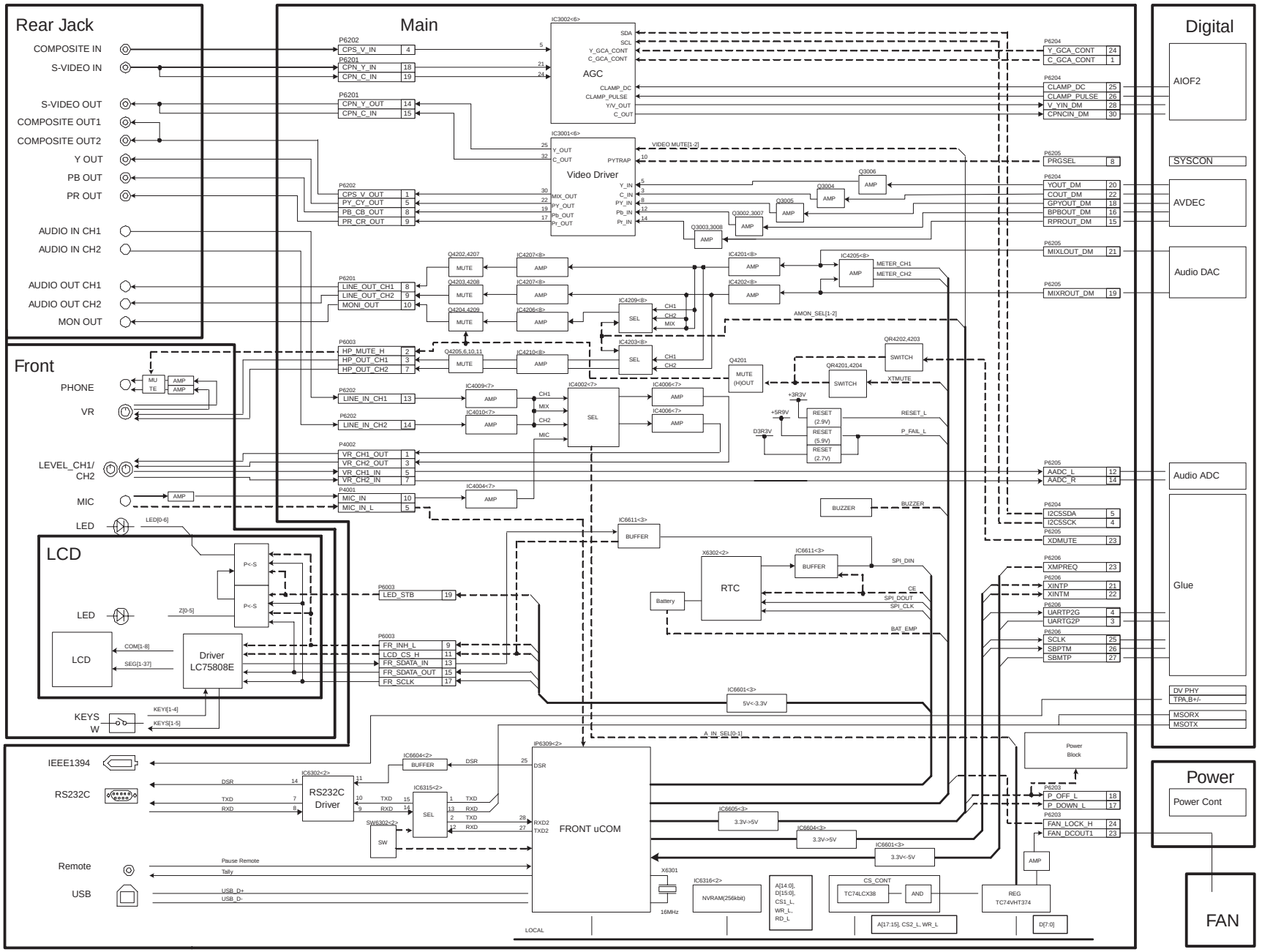
BOARD	MAIN C.B.A.
TP	VIDEO OUT 1 or VIDEOOUT 2
ADJ.	Remote operation by RS-232C control COMMAND : YCT PARAMETER : FD ~ 00 ~ 03
SIGNAL	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	SELF-REC/PLAY (XP mode)
M. EQ	Oscilloscope
SPEC.	Y,C Timing : 0 ± 50nsec C Level ≤ 3% of the Y Level

1. Confirm that the 12.5T modulation signal portion of Composite VIDEO OUT is displayed correctly on the Oscilloscope as shown in figure.
2. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
3. Adjust Y/C timing and C level so that they are within specification.

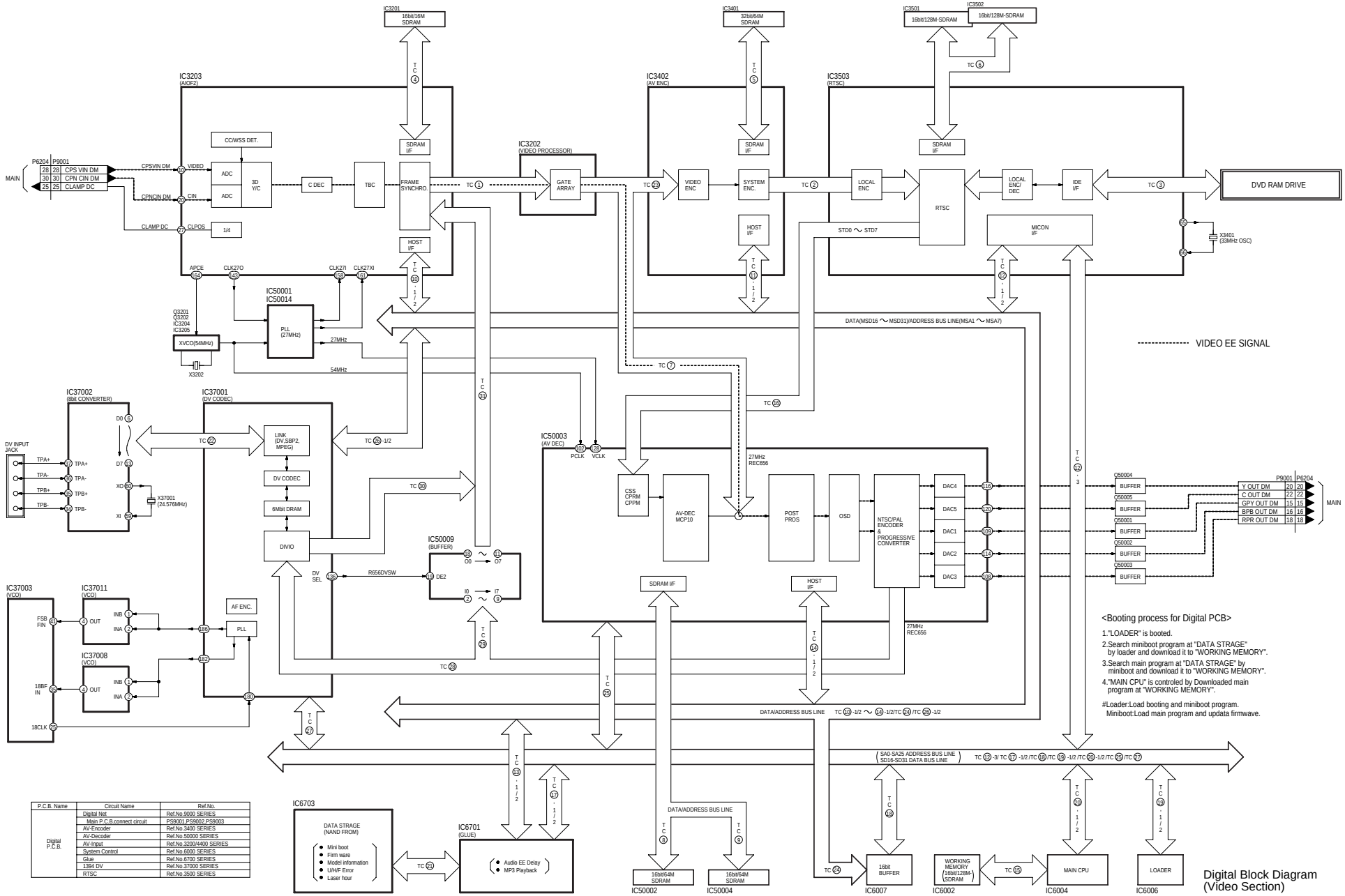


MAIN BLOCK DIAGRAM

BLK-1



DIGITAL BLOCK DIAGRAM (Video Section)



<Booting process for Digital PCB>

1."LOADER" is booted.

2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".

3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".

4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

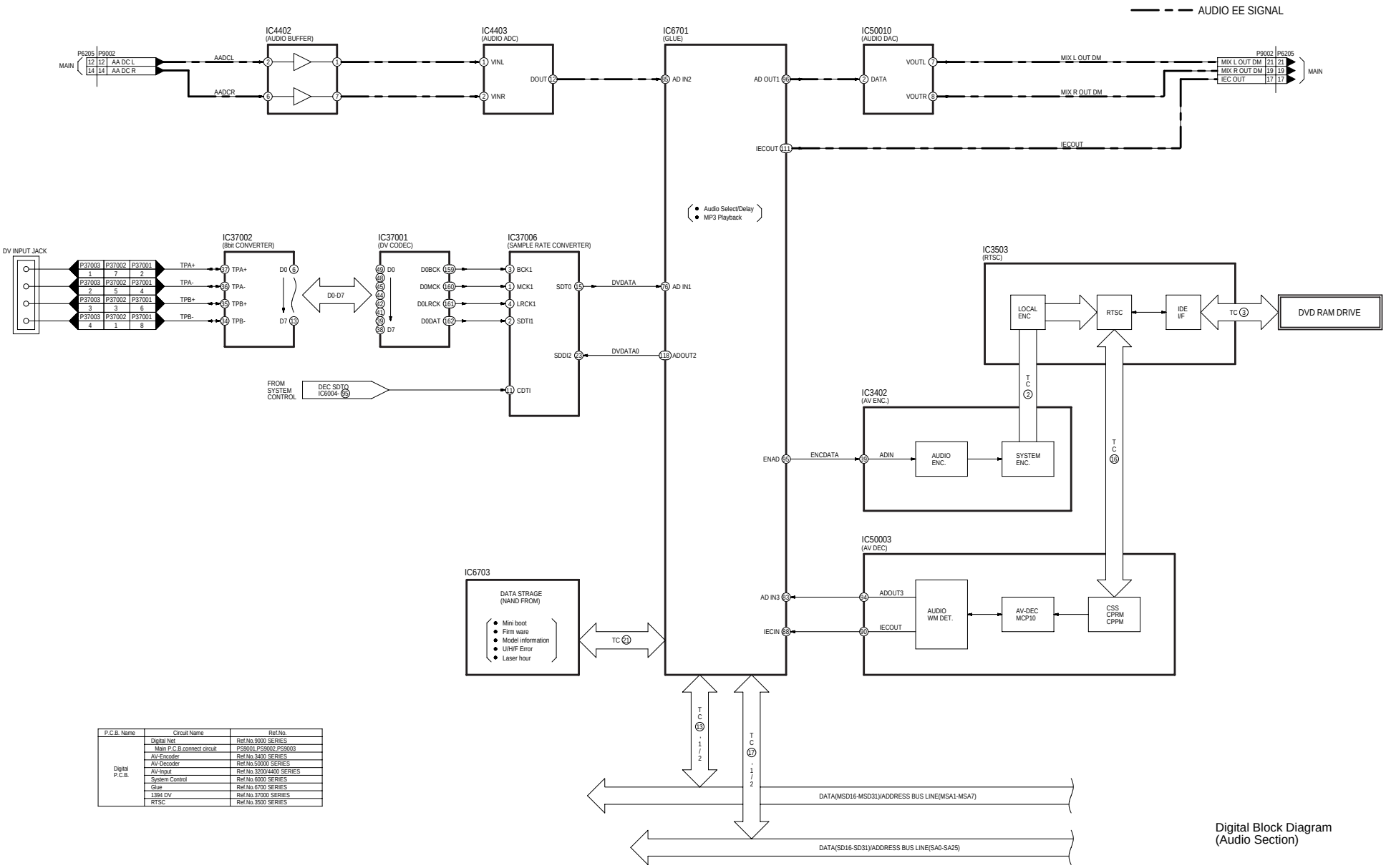
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES

Digital Block Diagram (Video Section)

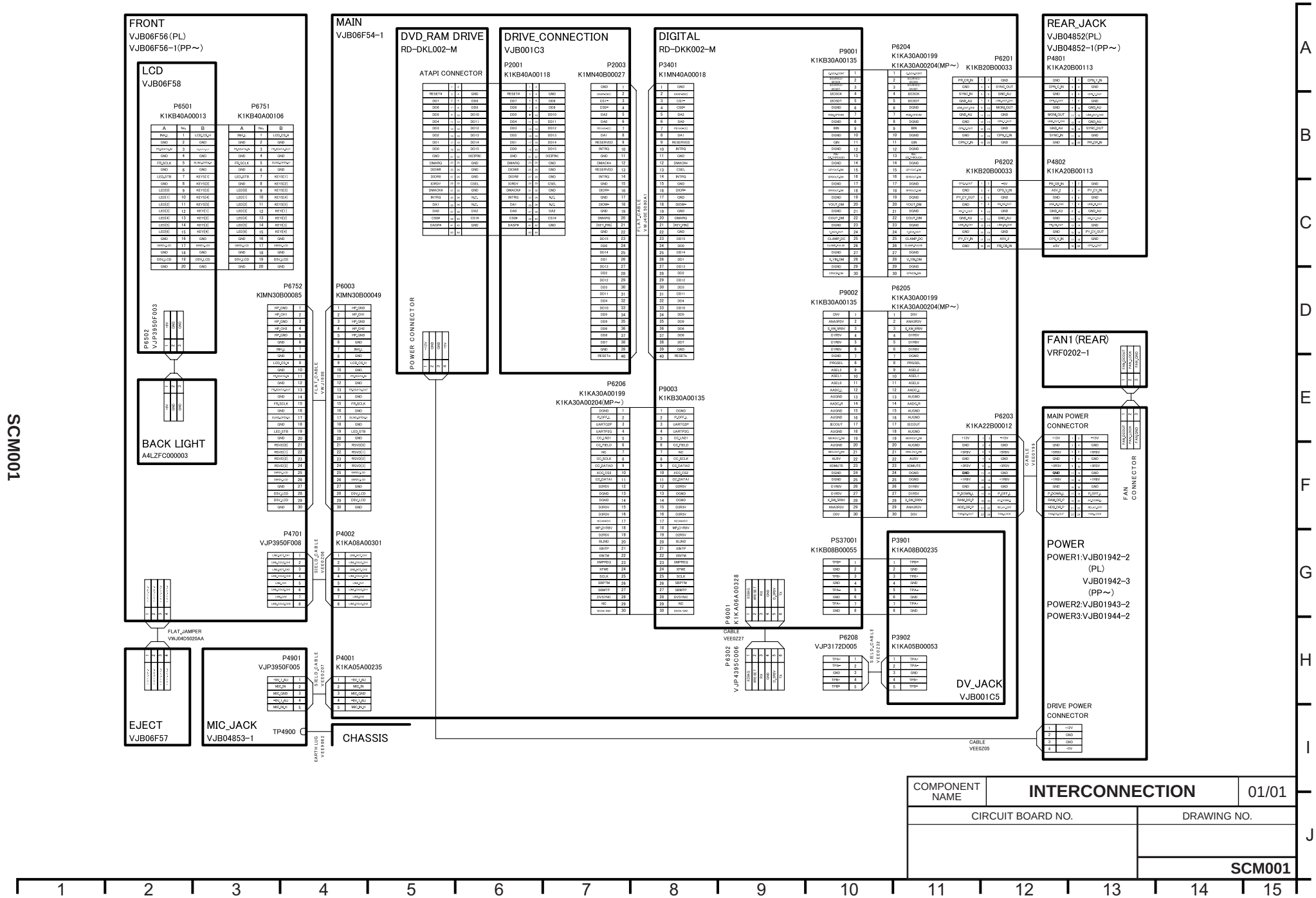
BLK-2

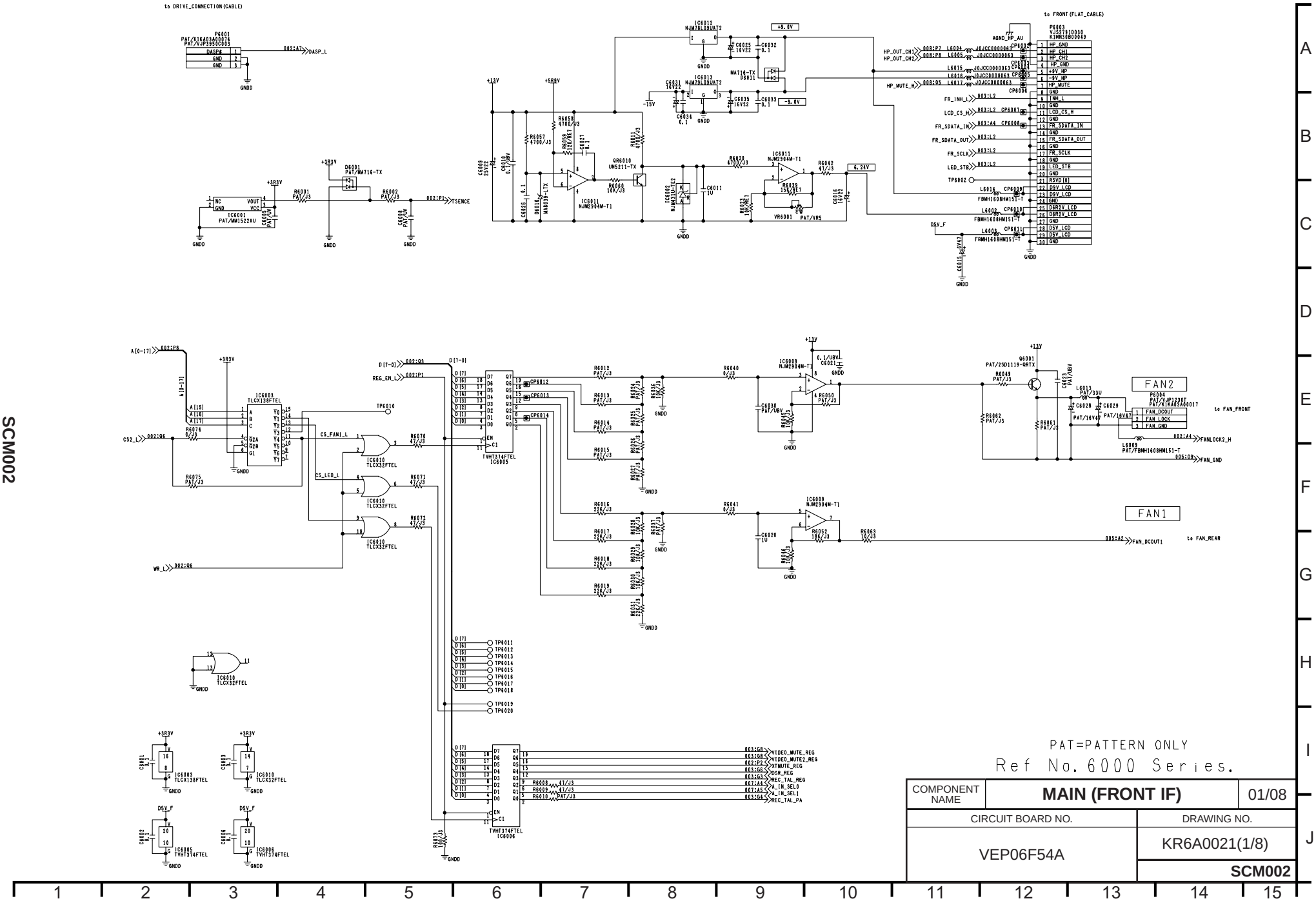
DIGITAL BLOCK DIAGRAM (Audio Section)

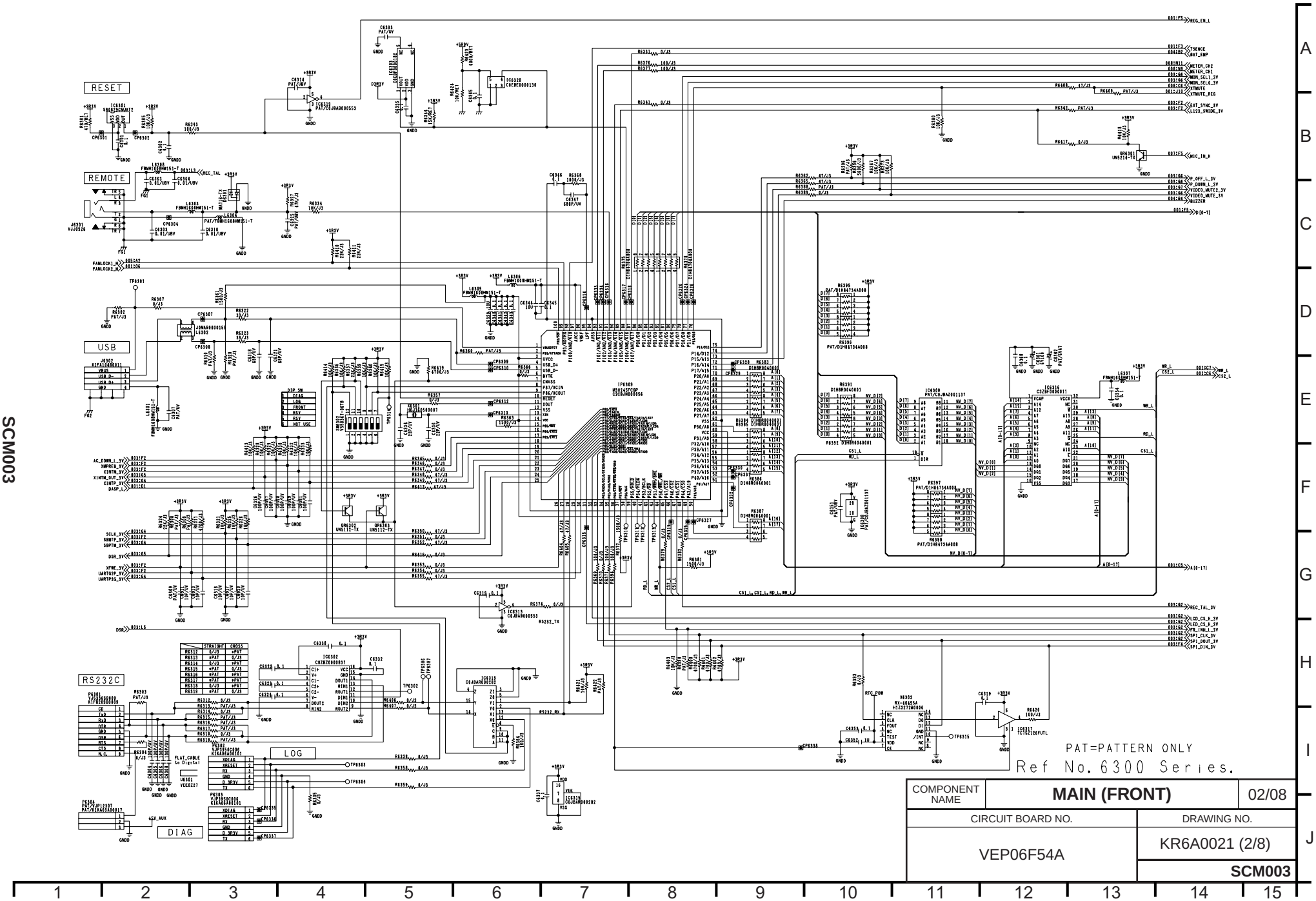


P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES

Digital Block Diagram
(Audio Section)


FRONT
VJB06F56(PL)
VJB06F56-1(PP～)
LCD
VJB06F58
P6501
K1KB40A00013
P6751
K1KB40A00106
P6502
VJP3950F003
BACK LIGHT
A4LZFC000003
P6752
KIMN30B00085
FLAT_CABLE
VKA1008
P6003
KIMN30B00049
P4701
VJP3950F008
SIELD_CABLE
VEE0Z04
P4002
K1KA08A00301
FLAT_JAMPER
VNJ04D5020AA
EJECT
VJB06F57
P4901
VJP3950F005
SIELD_CABLE
VEE0Z07
P4001
K1KA05A00235
MIC_JACK
VJB04853-1
TP4900
EARTH LUG
VEE9982
CHASSIS
MAIN
VJB06F54-1
DVD_RAM DRIVE
RD-DKL002-M
ATAPI CONNECTOR
POWER CONNECTOR
DRIVE_CONNECTION
VJB001C3
P2001
K1KB40A00118
P2003
K1MN40B00027
FLAT_CABLE
VKA1008
DIGITAL
RD-DKK002-M
P3401
K1MN40A00018
P9001
K1KB30A00135
P9002
K1KB30A00135
P9003
K1KB30A00135
P6206
K1KA30A00199
K1KA30A00204(MP～)
P6204
K1KA30A00199
K1KA30A00204(MP～)
P6205
K1KA30A00199
K1KA30A00204(MP～)
P6201
K1KB20B00033
P6202
K1KB20B00033
P6203
K1KA22B00012
REAR_JACK
VJB04852(PL)
VJB04852-1(PP～)
P4801
K1KA20B00113
P4802
K1KA20B00113
FAN1 (REAR)
VRF0202-1
FAN CONNECTOR
MAIN POWER
CONNECTOR
POWER
POWER1:VJB01942-2
(PL)
VJB01942-3
(PP～)
POWER2:VJB01943-2
POWER3:VJB01944-2
DRIVE POWER
CONNECTOR
CABLE
VEE0Z05
P6001
K1KA06A00328
CABLE
VEE0Z27
P6002
VJP4395C000
PS37001
K1KB08B00055
P3901
K1KA08B00235
P6208
VJP3172D005
MELD_CABLE
VEE0Z32
P3902
K1KA05B00053
DV_JACK
VJB001C5
SCM001
COMPONENT NAME
INTERCONNECTION
01/01
CIRCUIT BOARD NO.
DRAWING NO.
SCM001


SCM002
PAT=PATTERN ONLY
Ref No. 6000 Series.
COMPONENT NAME
MAIN (FRONT IF)
01/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021(1/8)
SCM002
FAN2
FAN1
to DRIVE_CONNECTION(CABLE)
to FRONT (FLAT_CABLE)
to FAN_FRONT
to FAN_REAR

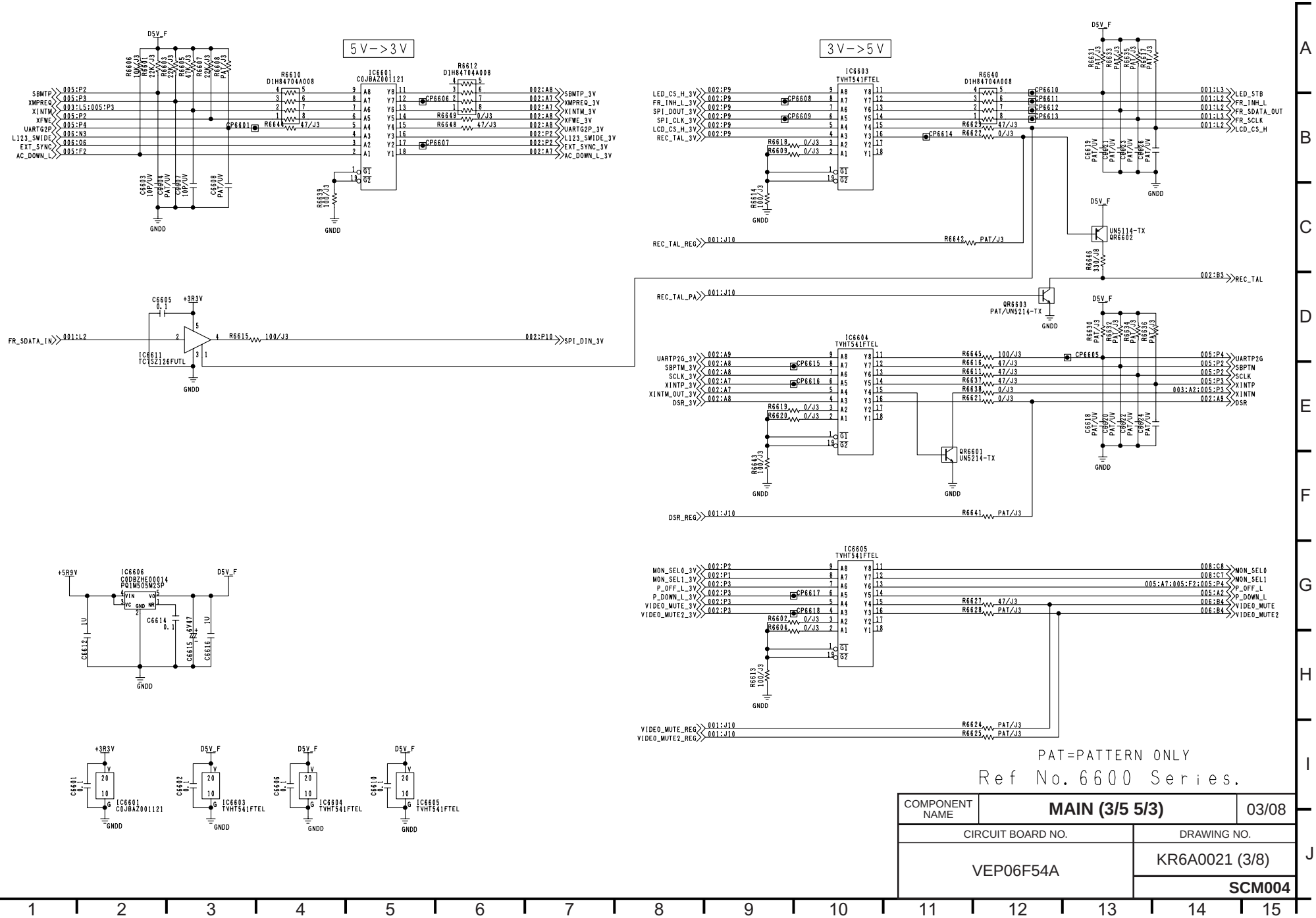


SCM003

COMPONENT NAME	MAIN (FRONT)	02/08
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F54A		KR6A0021 (2/8)
		SCM003

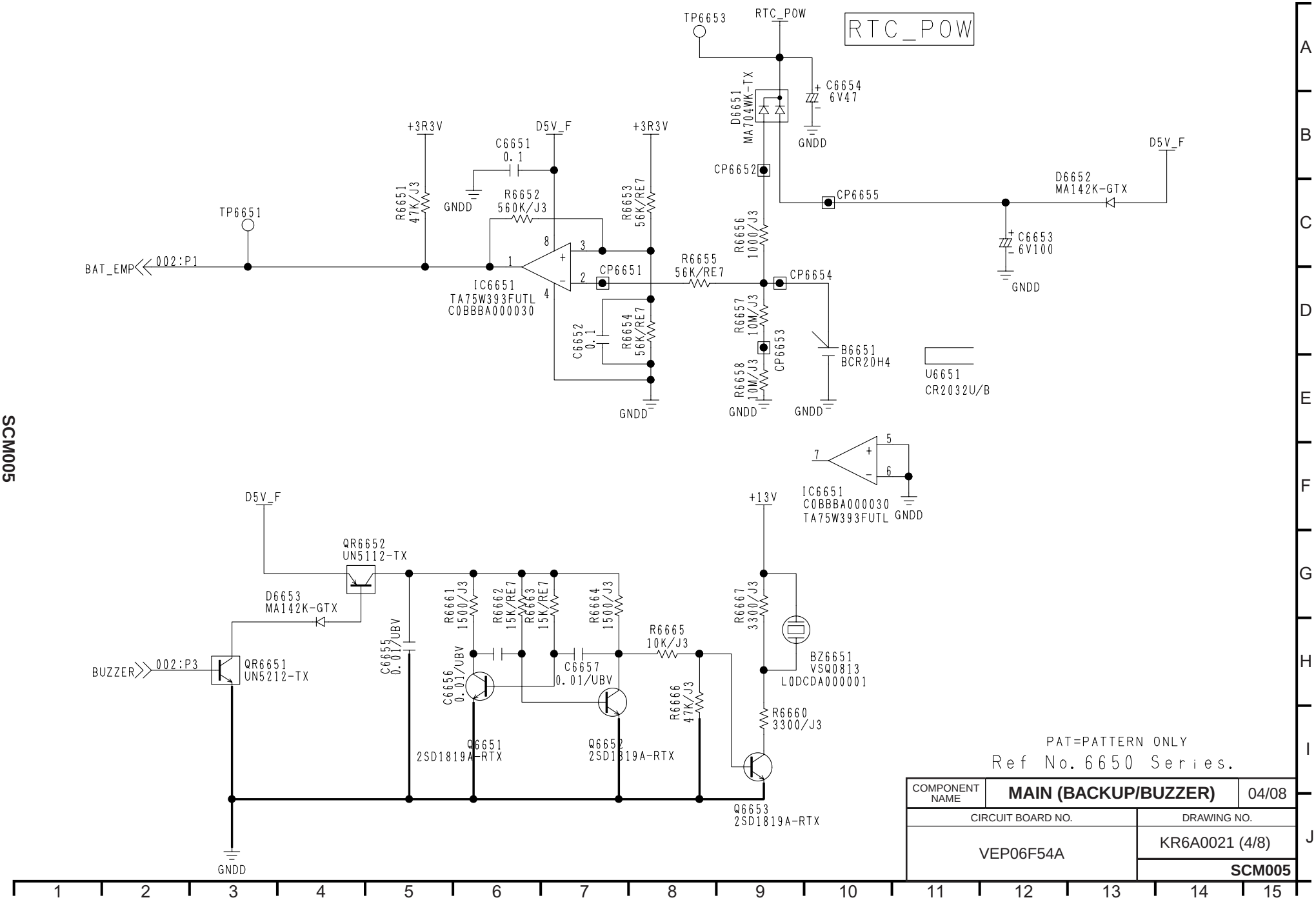
A B C D E F G H I J

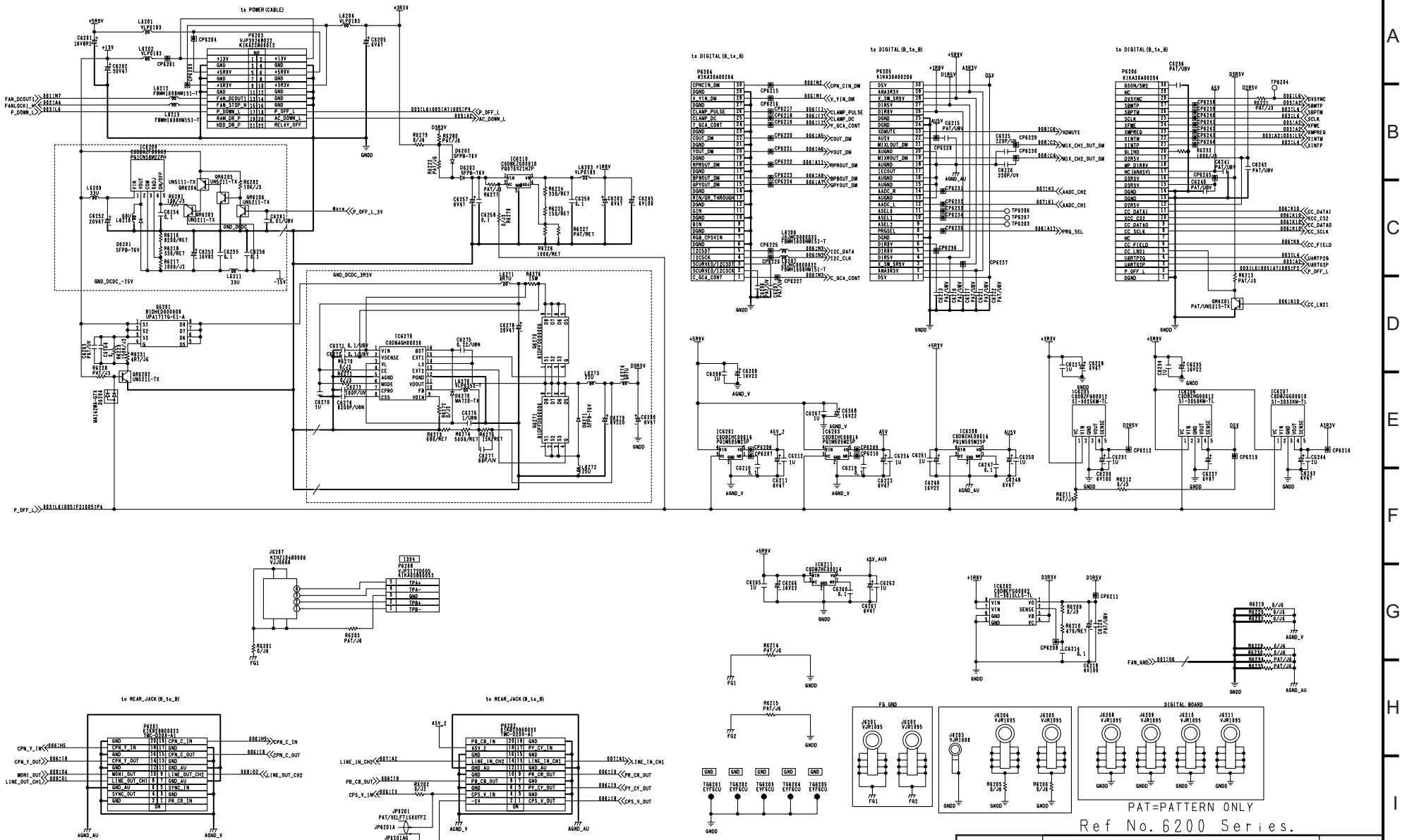
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



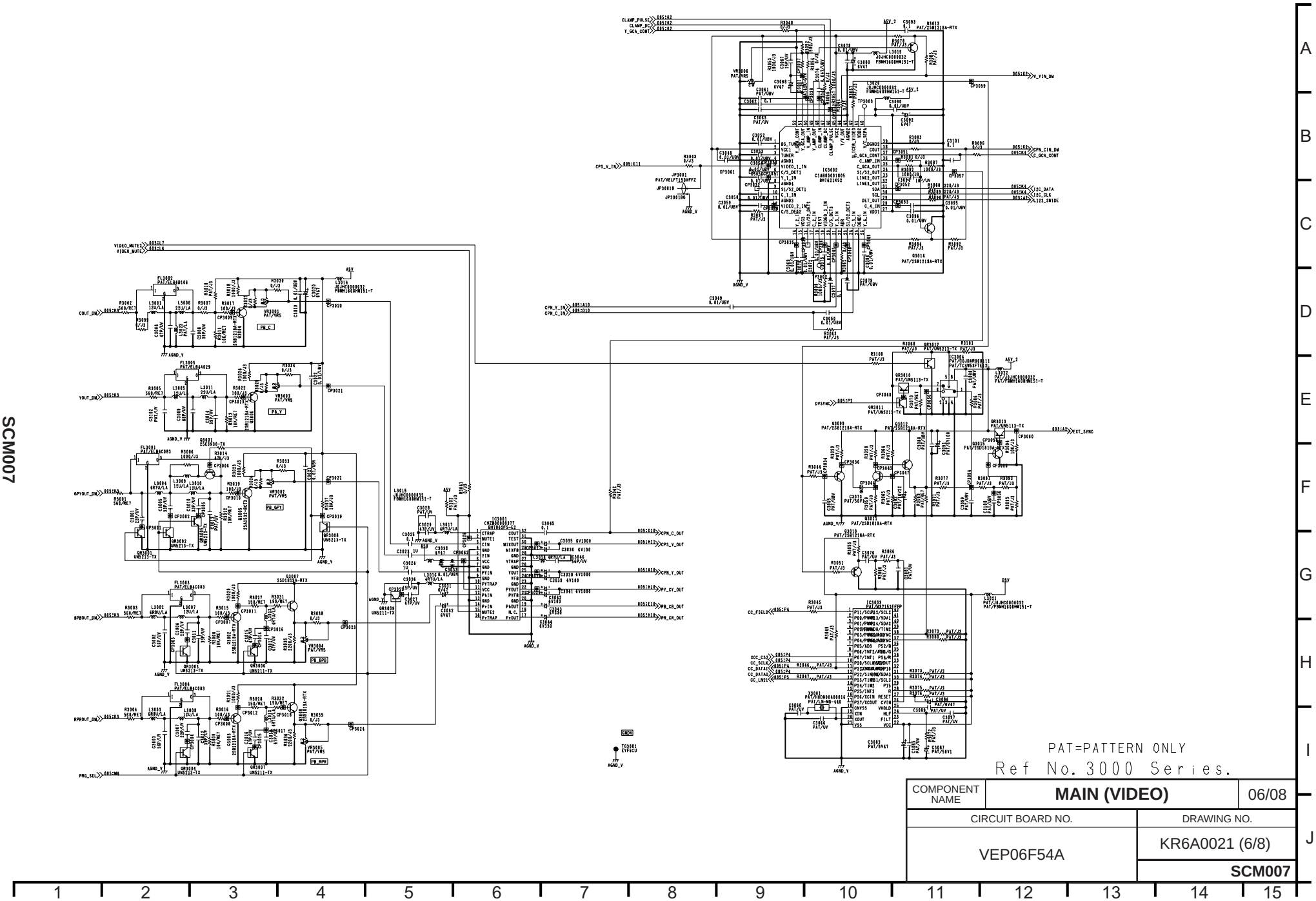
SCM004

COMPONENT NAME	**MAIN (3/5 5/3)**	03/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F54A	KR6A0021 (3/8)	
	SCM004	


RTC_POW
TP6653
RTC_POW
D6651
MA704WK-TX
C6654
6V47
GNDD
+3R3V
D5V_F
+3R3V
C6651
0.1
R6651
47K/J3
GNDD
R6652
560K/J3
R6653
56K/RE7
CP6652
CP6655
D6652
MA142K-GTX
D5V_F
TP6651
R6656
1000/J3
C6653
6V100
GNDD
BAT_EMP
002:P1
IC6651
TA75W393FUTL
C0BBBA000030
CP6651
R6655
56K/RE7
CP6654
C6652
0.1
R6654
56K/RE7
R6657
10M/J3
CP6653
B6651
BCR20H4
U6651
CR2032U/B
R6658
10M/J3
GNDD
GNDD
GNDD
IC6651
C0BBBA000030
TA75W393FUTL
GNDD
D5V_F
+13V
QR6652
UN5112-TX
D6653
MA142K-GTX
R6661
1500/J3
R6662
15K/RE7
R6663
15K/RE7
R6664
1500/J3
R6665
10K/J3
R6667
3300/J3
BZ6651
VSQ0813
L0DCDA000001
BUZZER
002:P3
QR6651
UN5212-TX
C6655
0.01/UBV
C6656
0.01/UBV
C6657
0.01/UBV
R6666
47K/J3
R6660
3300/J3
Q6651
2SD1819A-RTX
Q6652
2SD1819A-RTX
Q6653
2SD1819A-RTX
GNDD
PAT=PATTERN ONLY
Ref No. 6650 Series.
COMPONENT NAME
MAIN (BACKUP/BUZZER)
04/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021 (4/8)
SCM005
SCM005
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15



COMPONENT NAME	**MAIN (INTERFACE)**	05/08
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F54A	KR6A0021 (5/8)	
	SCM006	

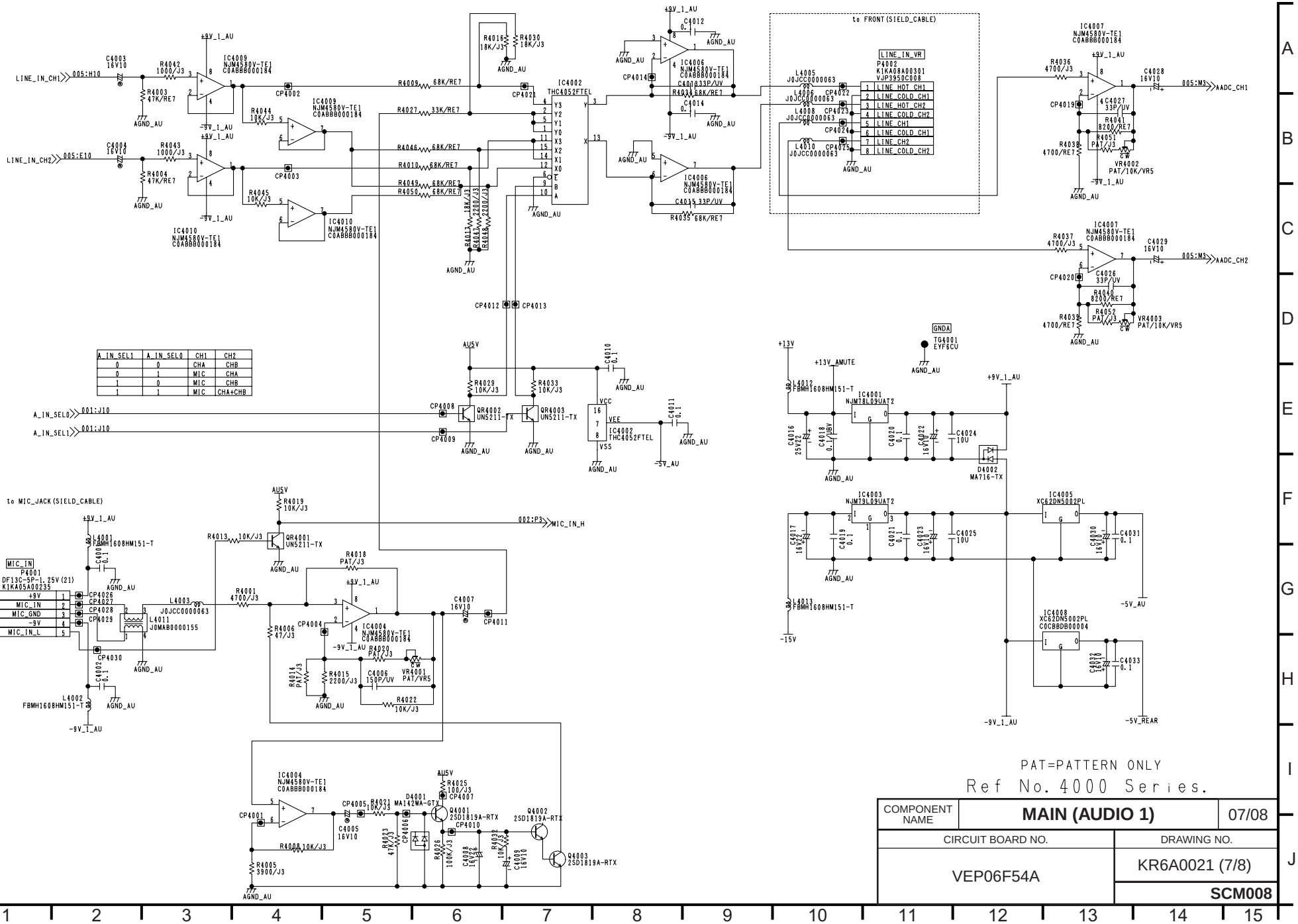


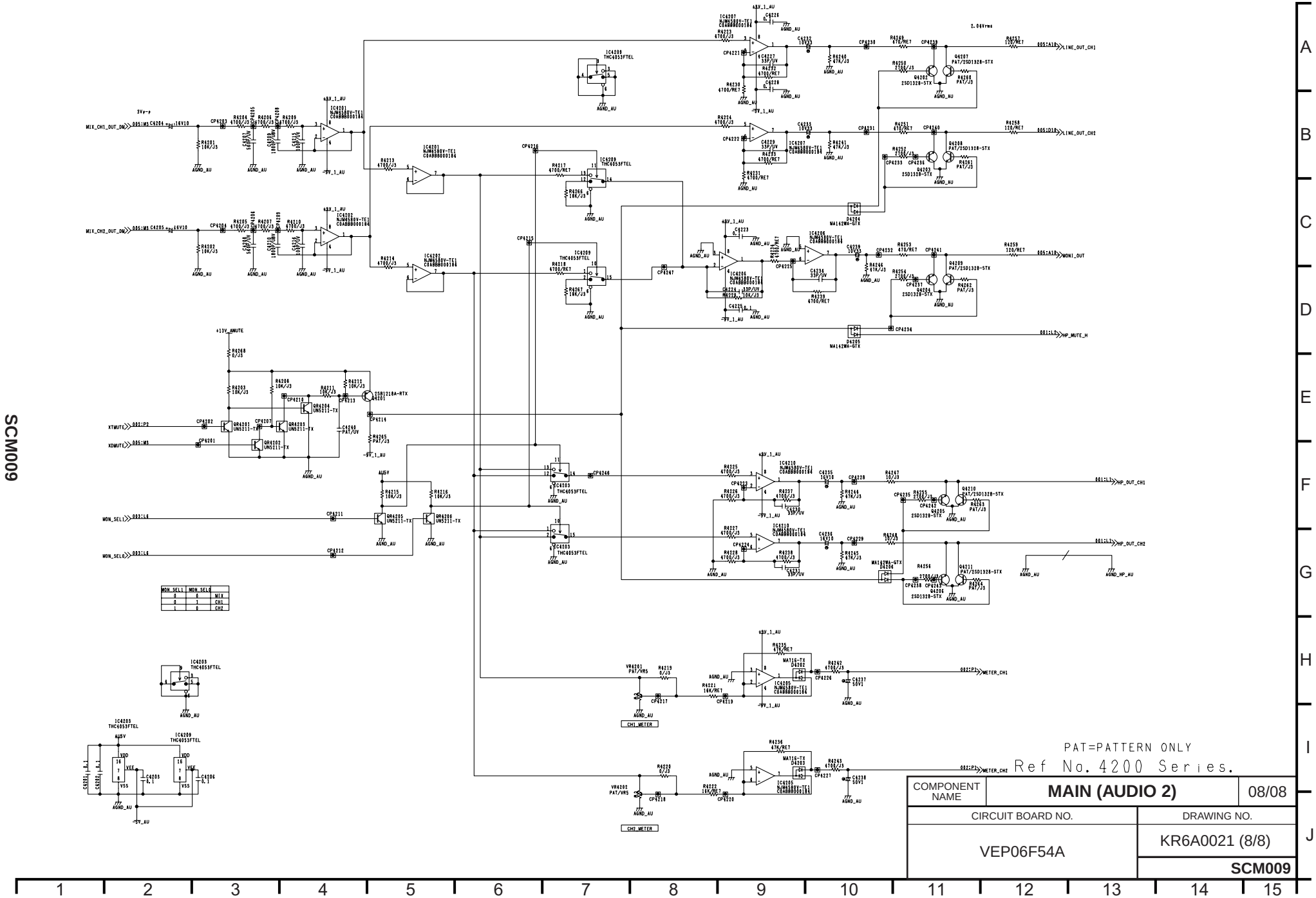
PAT=PATTERN ONLY

Ref No. 3000 Series.

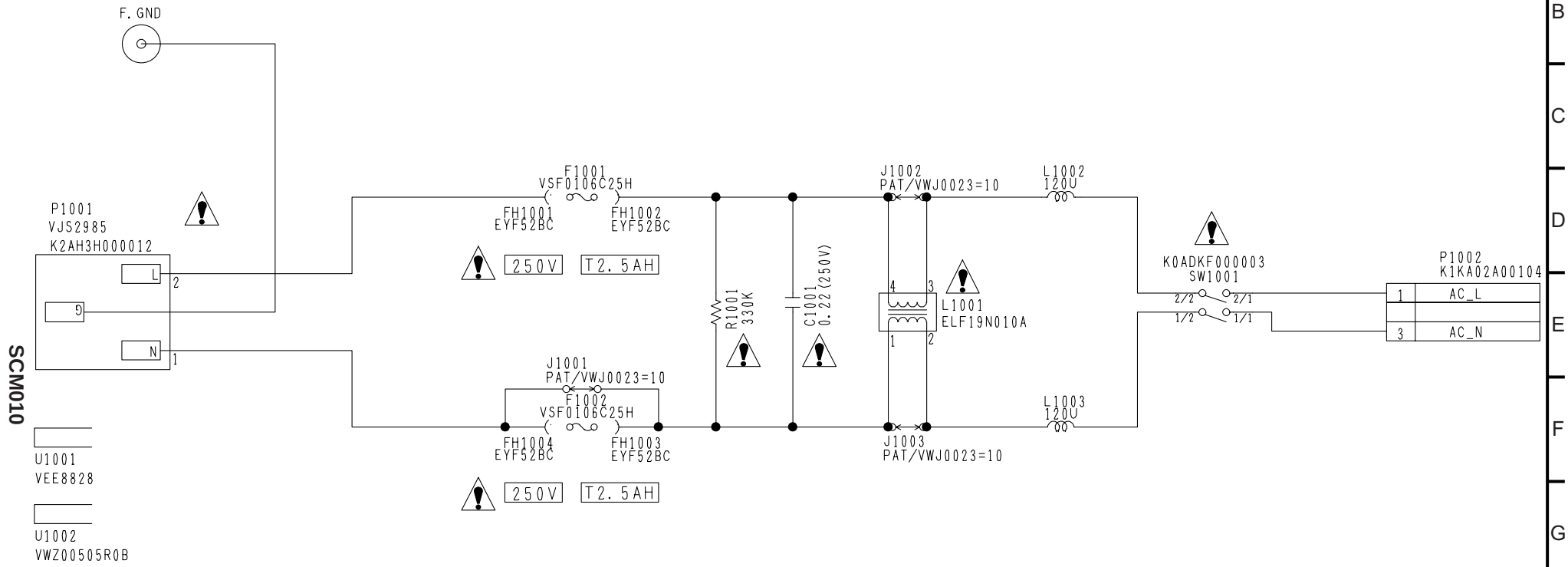
COMPONENT NAME	MAIN (VIDEO)	06/08
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F54A		KR6A0021 (6/8)
		SCM007

SCM007


SCM008
A_IN_SEL1 | A_IN_SEL0 | CH1 | CH2
0 | 0 | CHA | CHB
0 | 1 | MIC | CHA
1 | 0 | MIC | CHB
1 | 1 | MIC | CHA+CHB
to FRONT(SIELD_CABLE)
LINE_IN_VR
P4002
K1KA08A00301
VJP3950C008
1 LINE_HOT_CH1
2 LINE_COLD_CH1
3 LINE_HOT_CH2
4 LINE_COLD_CH2
5 LINE_CH1
6 LINE_COLD_CH1
7 LINE_CH2
8 LINE_COLD_CH2
to MIC_JACK(SIELD_CABLE)
MIC_IN
P4001
DF13C-5P-1.25V(21)
K1KA05A00235
+9V
MIC_IN
MIC_GND
-9V
MIC_IN_L
PAT=PATTERN ONLY
Ref No. 4000 Series.
COMPONENT NAME
MAIN (AUDIO 1)
07/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021 (7/8)
SCM008


SCM009
MON_SEL1 | MON_SEL0
0 | 0 | MIX
0 | 1 | CH1
1 | 0 | CH2
PAT=PATTERN ONLY
Ref No. 4200 Series.
COMPONENT NAME
MAIN (AUDIO 2)
08/08
CIRCUIT BOARD NO.
VEP06F54A
DRAWING NO.
KR6A0021 (8/8)
SCM009

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS ONLY THE SAME TYPE.



SCM010

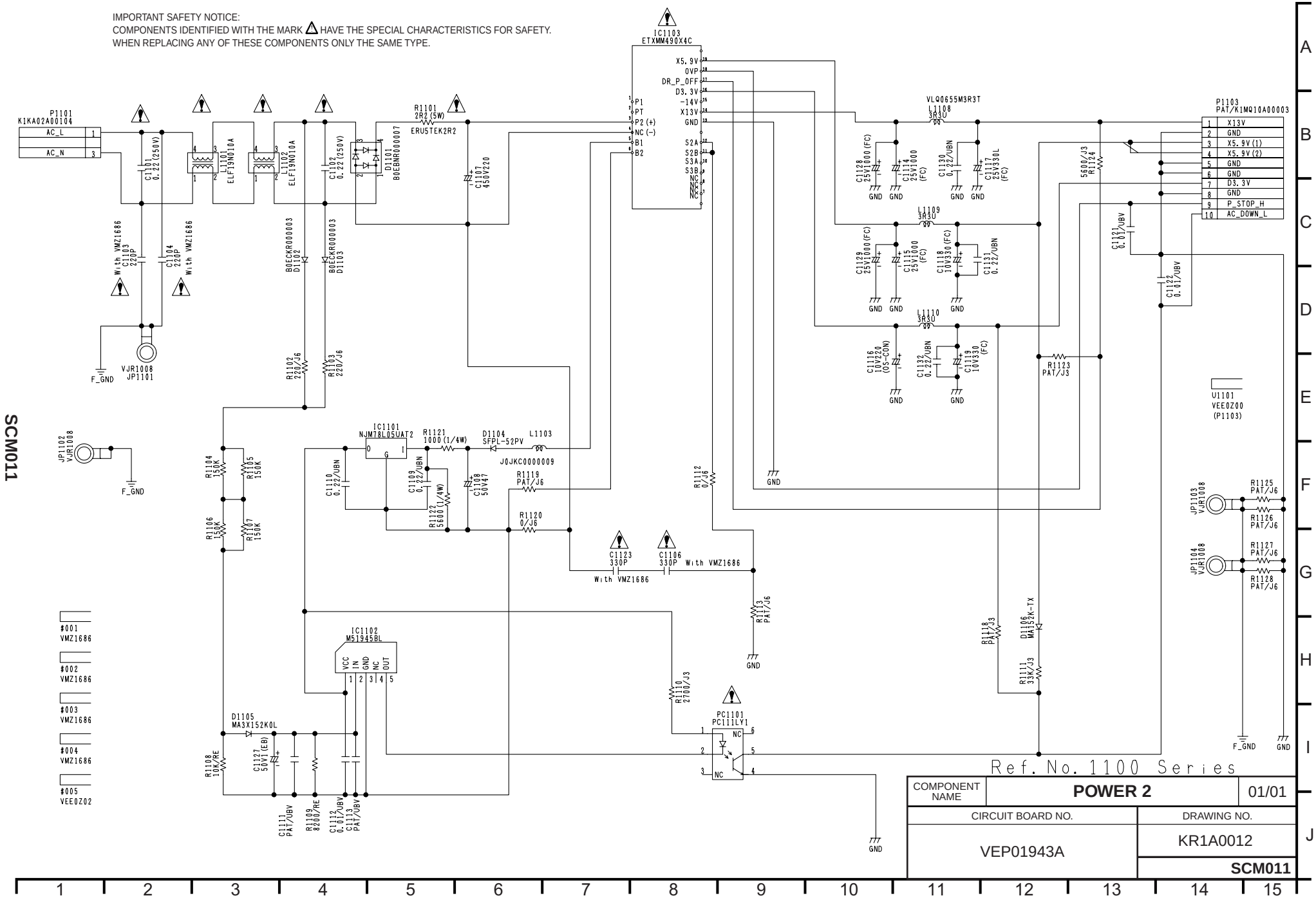
Ref. No. 1000 Series

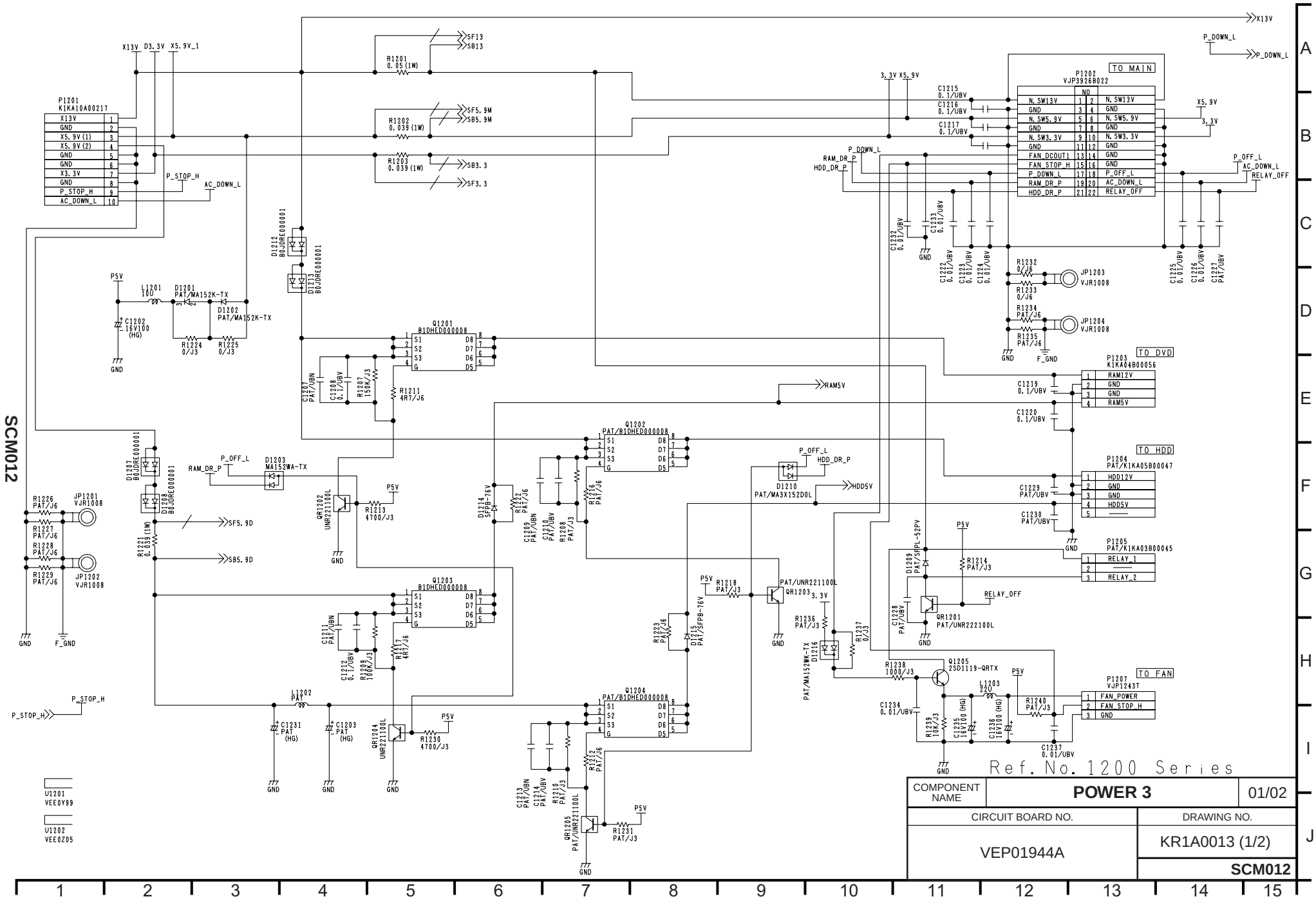
COMPONENT NAME	POWER 1	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01942A		KR1A0011
		SCM010

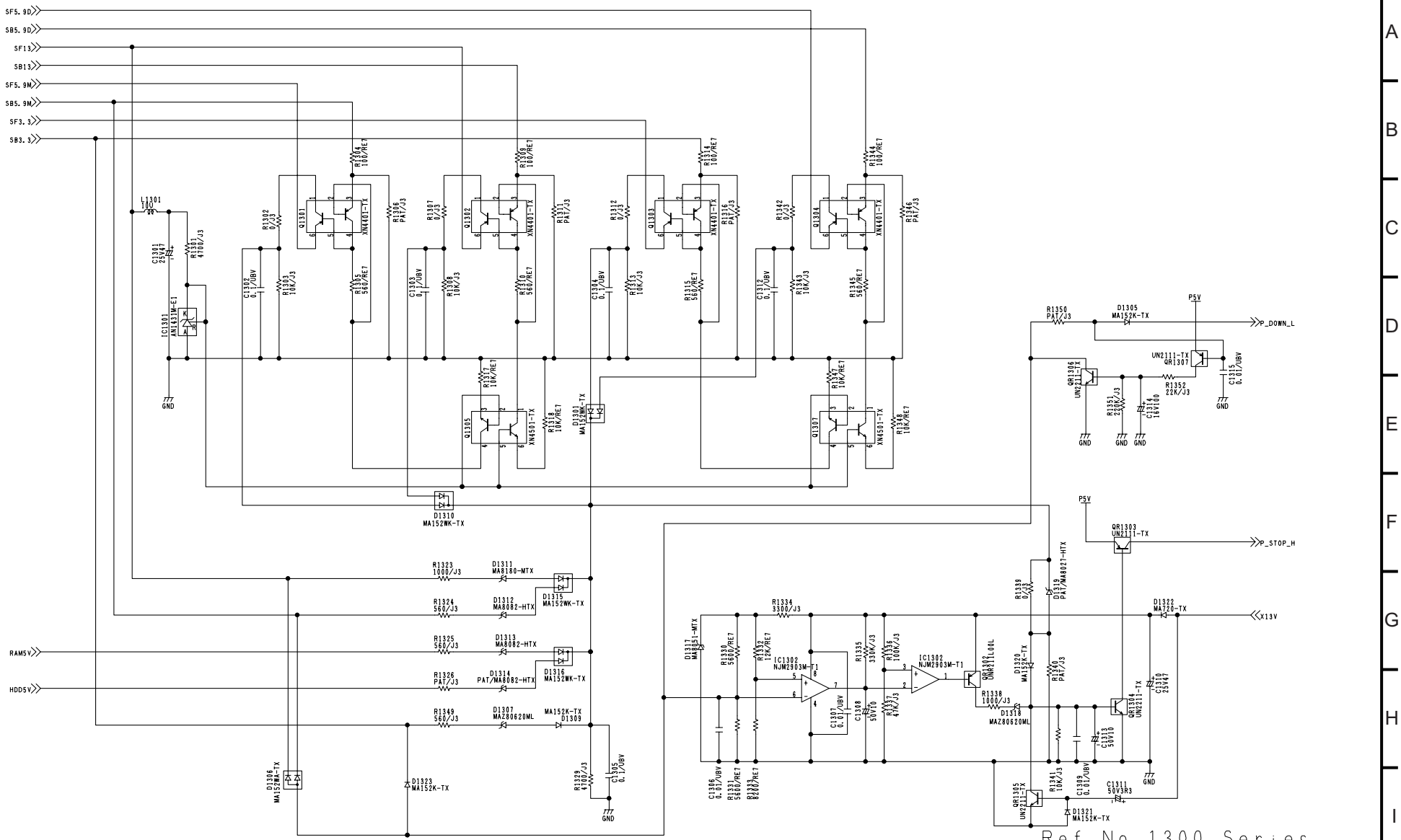
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS ONLY THE SAME TYPE.

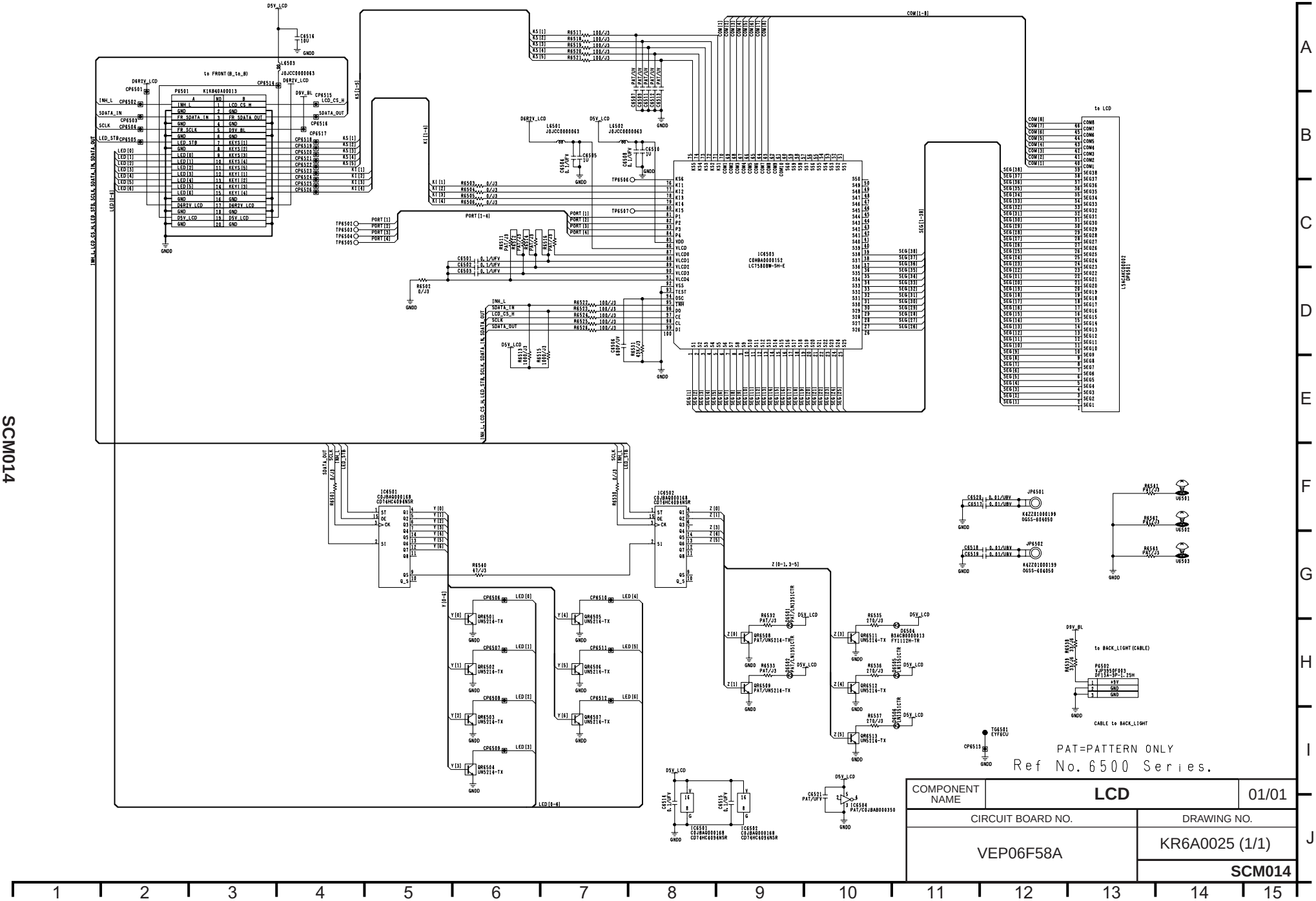


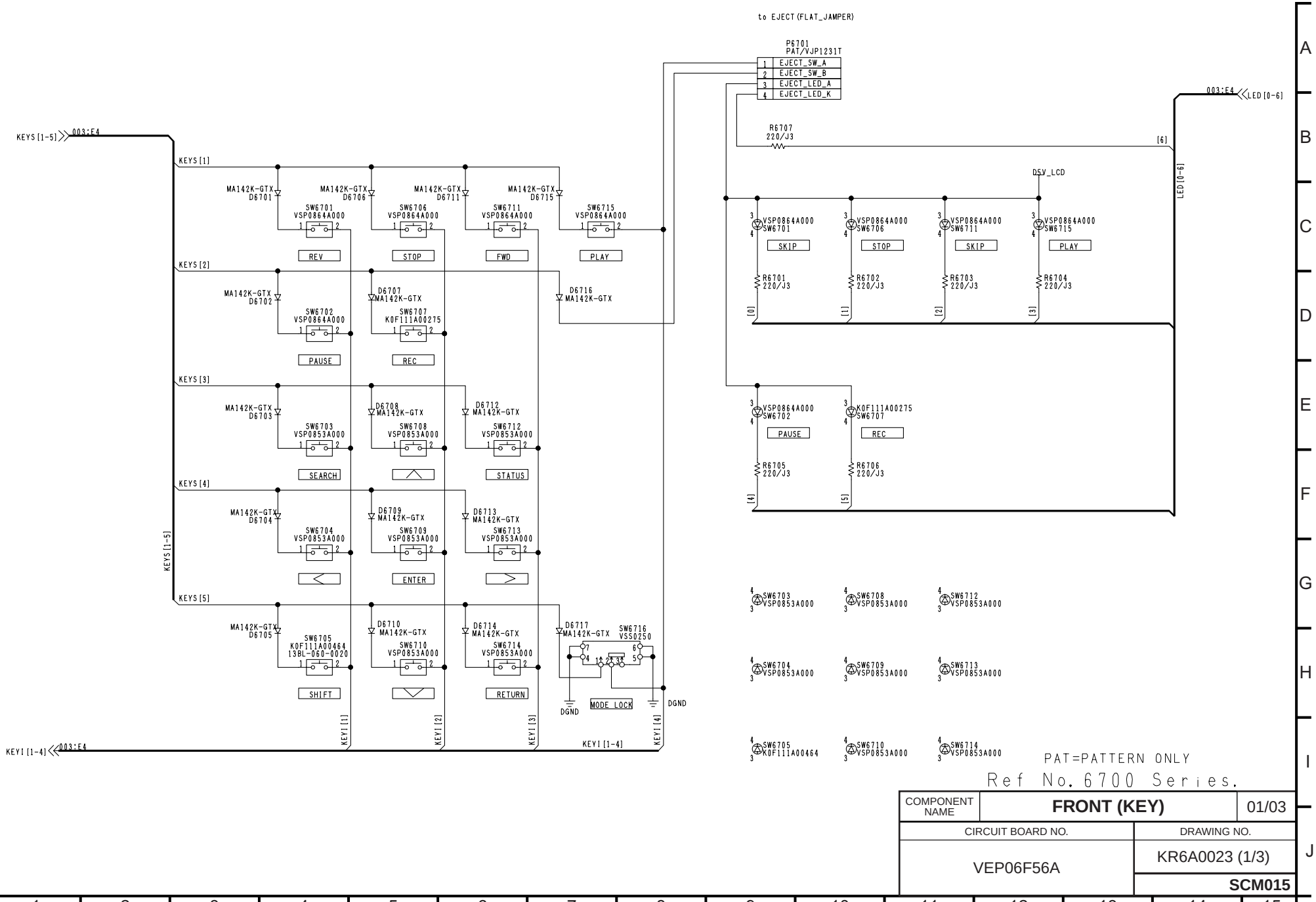

SCM012
P1201
K1KA10A00217
X13V
GND
X5.9V(1)
X5.9V(2)
GND
GND
X3.3V
GND
P_STOP_H
AC_DOWN_L
P1202
VJP3926B022
TO MAIN
N.SW13V
GND
N.SW5.9V
GND
N.SW3.3V
GND
FAN_DCOUT1
FAN_STOP_H
P_DOWN_L
RAM_DR_P
HDD_DR_P
P_OFF_L
AC_DOWN_L
RELAY_OFF
P1203
K1KA04B00056
TO DVD
RAM12V
GND
GND
RAM5V
P1204
PAT/K1KA05B00047
TO HDD
HDD12V
GND
GND
HDD5V
P1205
PAT/K1KA03B00045
RELAY_1
RELAY_2
P1207
VJP1243T
TO FAN
FAN_POWER
FAN_STOP_H
GND
JP1201
VJR1008
JP1202
VJR1008
JP1203
VJR1008
JP1204
VJR1008
U1201
VEEOY99
U1202
VEEOZ05
Ref. No. 1200 Series
COMPONENT NAME
POWER 3
01/02
CIRCUIT BOARD NO.
VEP01944A
DRAWING NO.
KR1A0013 (1/2)
SCM012

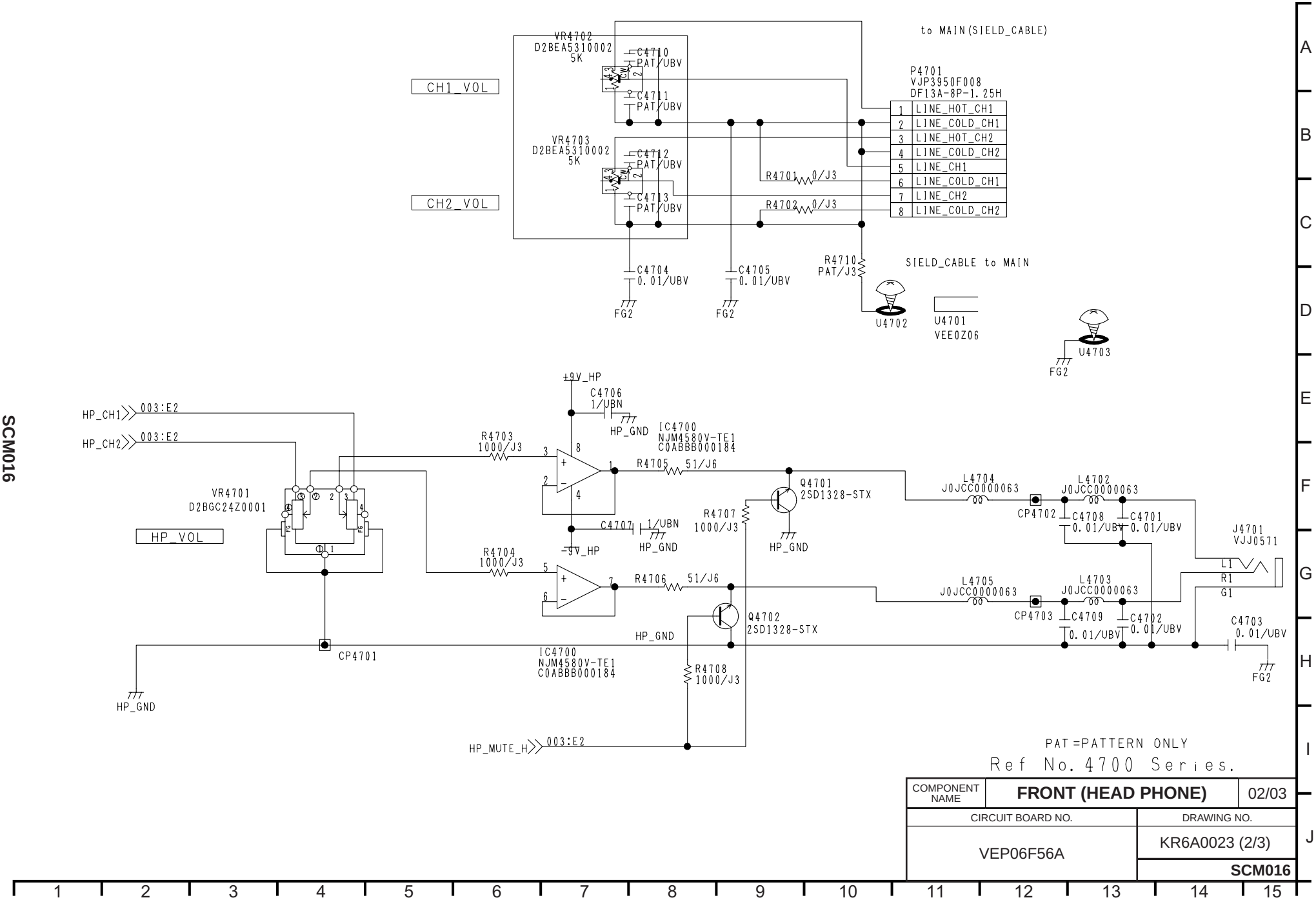


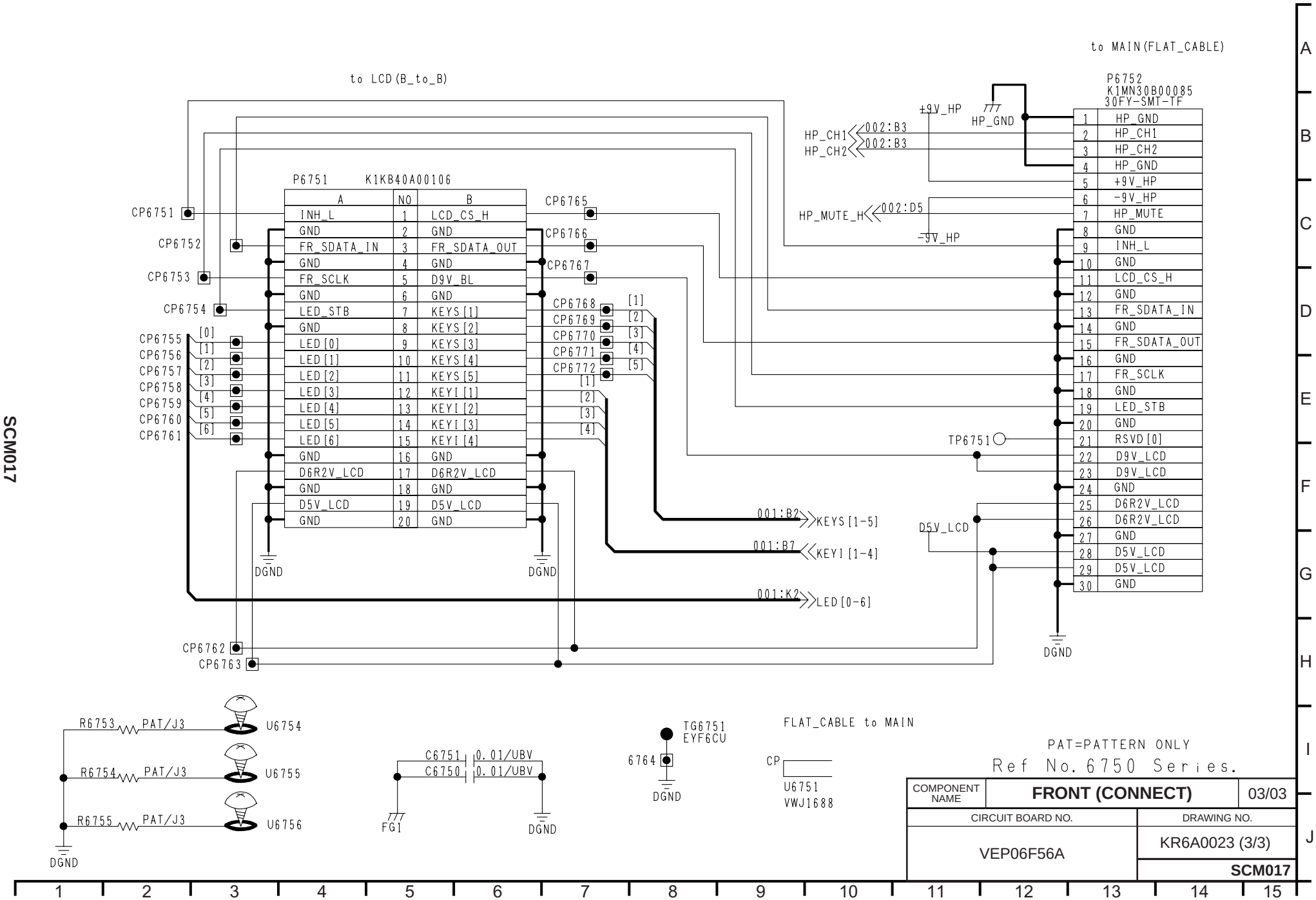
SCM013

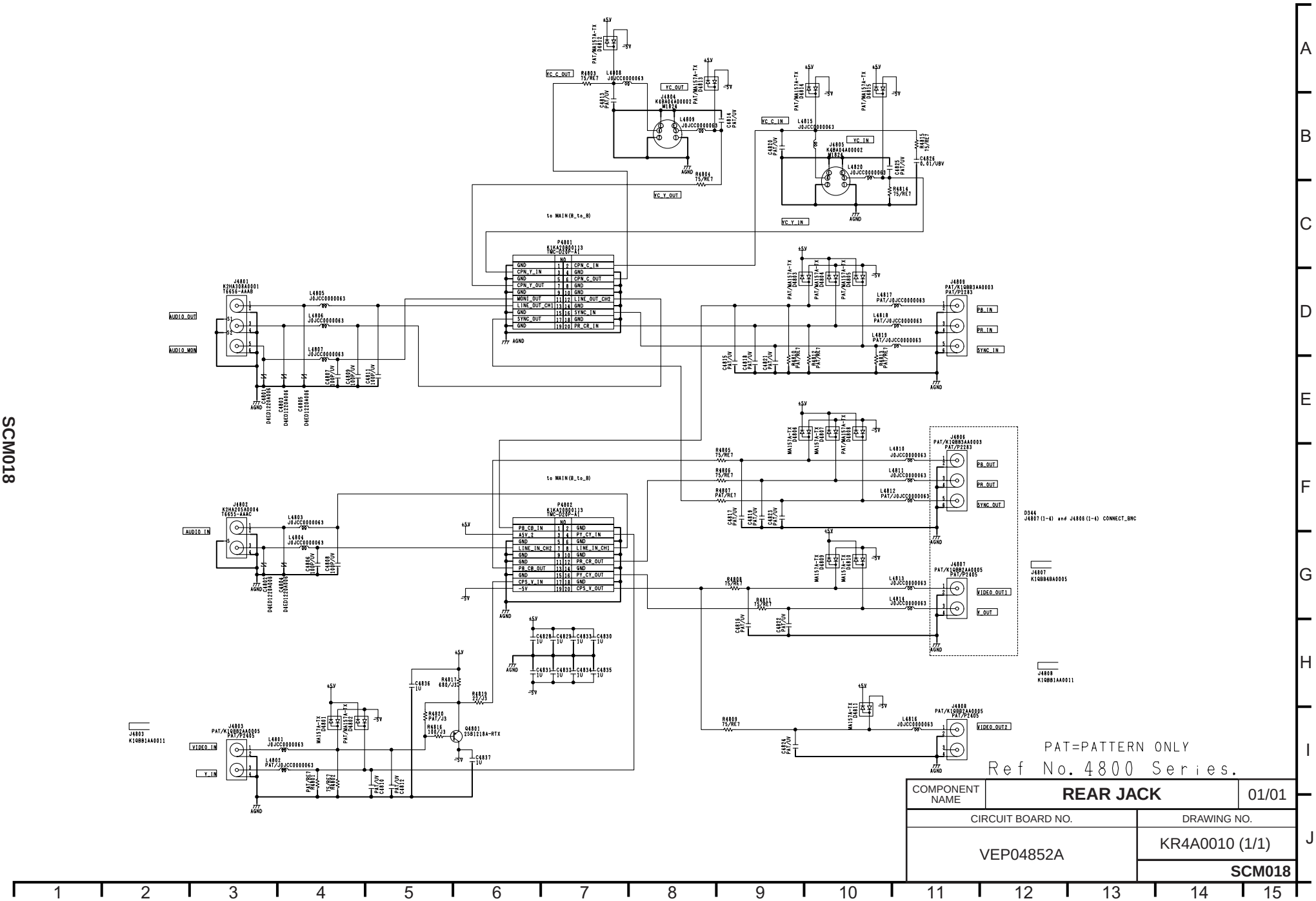
COMPONENT NAME	POWER 3	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01944A		KR1A0013 (2/2)
		SCM013

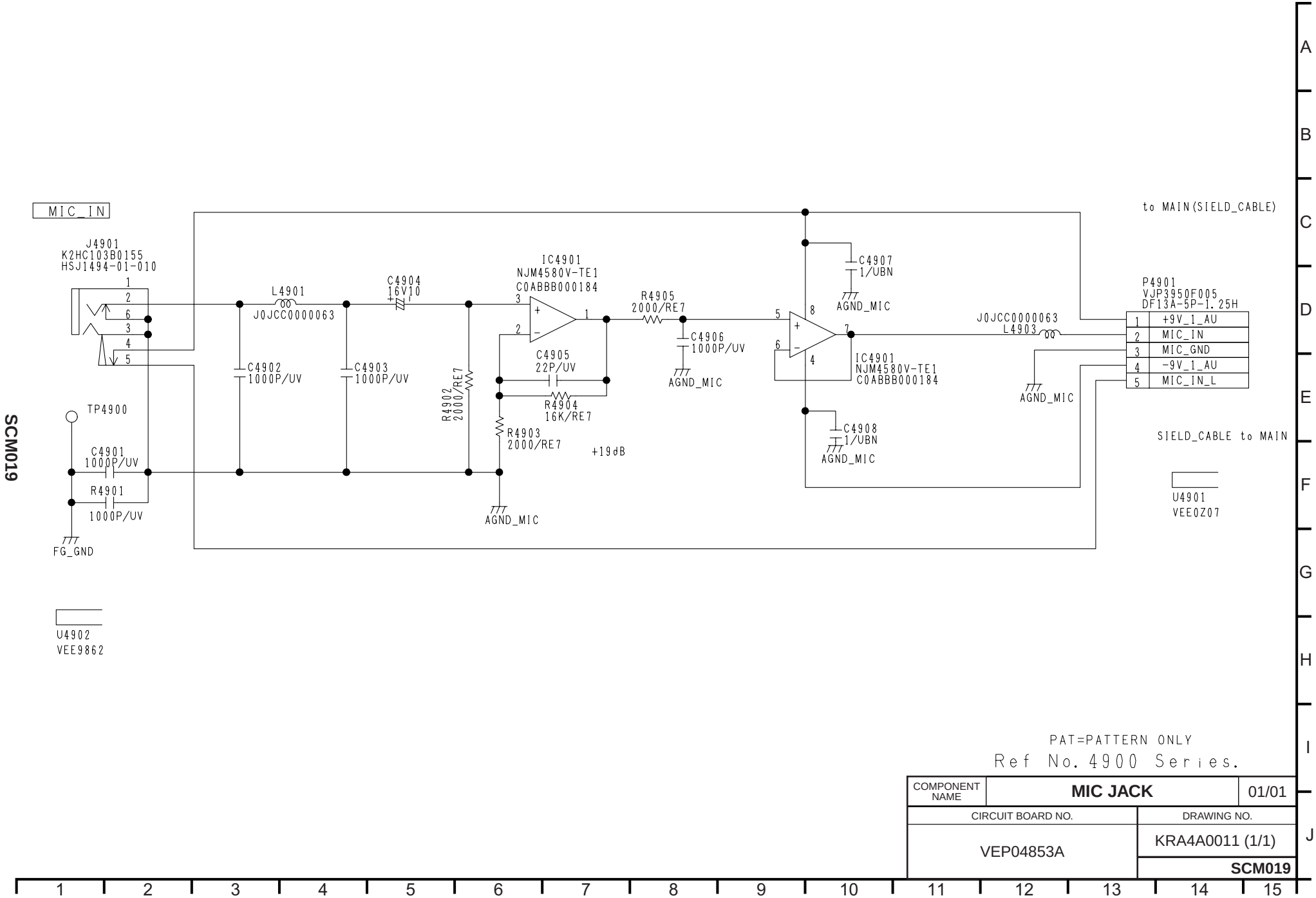

SCM014
PAT=PATTERN ONLY
Ref No. 6500 Series.
COMPONENT NAME
LCD
01/01
CIRCUIT BOARD NO.
VEP06F58A
DRAWING NO.
KR6A0025 (1/1)
SCM014


SCM015
to EJECT(FLAT_JAMPER)
P6701
PAT/VJP1231T
EJECT_SW_A
EJECT_SW_B
EJECT_LED_A
EJECT_LED_K
003:E4
LED [0-6]
R6707
220/J3
DSV_LCD
KEYS [1-5]
KEYS [1]
KEYS [2]
KEYS [3]
KEYS [4]
KEYS [5]
REV
STOP
FWD
PLAY
PAUSE
REC
SEARCH
STATUS
ENTER
SHIFT
RETURN
MODE LOCK
SKIP
DGND
KEY1 [1-4]
PAT=PATTERN ONLY
Ref No. 6700 Series.
COMPONENT NAME
FRONT (KEY)
01/03
CIRCUIT BOARD NO.
VEP06F56A
DRAWING NO.
KR6A0023 (1/3)
SCM015


SCM016
VR4702
D2BEA5310002
5K
C4710
PAT/UBV
C4711
PAT/UBV
CH1_VOL
VR4703
D2BEA5310002
5K
C4712
PAT/UBV
C4713
PAT/UBV
CH2_VOL
C4704
0.01/UBV
C4705
0.01/UBV
FG2
FG2
R4701 0/J3
R4702 0/J3
to MAIN(SIELD_CABLE)
P4701
VJP3950F008
DF13A-8P-1.25H
1 LINE_HOT_CH1
2 LINE_COLD_CH1
3 LINE_HOT_CH2
4 LINE_COLD_CH2
5 LINE_CH1
6 LINE_COLD_CH1
7 LINE_CH2
8 LINE_COLD_CH2
R4710
PAT/J3
SIELD_CABLE to MAIN
U4702
U4701
VEE0Z06
U4703
FG2
HP_CH1
003:E2
HP_CH2
003:E2
VR4701
D2BGC24Z0001
HP_VOL
+9V_HP
C4706
1/UBN
HP_GND
IC4700
NJM4580V-TE1
C0ABBB000184
R4703
1000/J3
R4704
1000/J3
R4705 51/J6
R4706 51/J6
R4707
1000/J3
Q4701
2SD1328-STX
Q4702
2SD1328-STX
C4707 1/UBN
HP_GND
-9V_HP
HP_GND
L4704
J0JCC0000063
L4705
J0JCC0000063
L4702
J0JCC0000063
L4703
J0JCC0000063
CP4702
CP4703
C4708
0.01/UBV
C4701
0.01/UBV
C4709
0.01/UBV
C4702
0.01/UBV
J4701
VJJ0571
L1
R1
G1
C4703
0.01/UBV
FG2
CP4701
HP_GND
IC4700
NJM4580V-TE1
C0ABBB000184
R4708
1000/J3
HP_MUTE_H
003:E2
PAT=PATTERN ONLY
Ref No. 4700 Series.
COMPONENT NAME
FRONT (HEAD PHONE)
02/03
CIRCUIT BOARD NO.
VEP06F56A
DRAWING NO.
KR6A0023 (2/3)
SCM016
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


SCM017
to LCD(B_to_B)
to MAIN(FLAT_CABLE)
P6751 K1KB40A00106
P6752 K1MN30B00085 30FY-SMT-TF
A NO B
INH_L 1 LCD_CS_H
GND 2 GND
FR_SDATA_IN 3 FR_SDATA_OUT
GND 4 GND
FR_SCLK 5 D9V_BL
GND 6 GND
LED_STB 7 KEYS[1]
GND 8 KEYS[2]
LED[0] 9 KEYS[3]
LED[1] 10 KEYS[4]
LED[2] 11 KEYS[5]
LED[3] 12 KEYI[1]
LED[4] 13 KEYI[2]
LED[5] 14 KEYI[3]
LED[6] 15 KEYI[4]
GND 16 GND
D6R2V_LCD 17 D6R2V_LCD
GND 18 GND
D5V_LCD 19 D5V_LCD
GND 20 GND
1 HP_GND
2 HP_CH1
3 HP_CH2
4 HP_GND
5 +9V_HP
6 -9V_HP
7 HP_MUTE
8 GND
9 INH_L
10 GND
11 LCD_CS_H
12 GND
13 FR_SDATA_IN
14 GND
15 FR_SDATA_OUT
16 GND
17 FR_SCLK
18 GND
19 LED_STB
20 GND
21 RSVD[0]
22 D9V_LCD
23 D9V_LCD
24 GND
25 D6R2V_LCD
26 D6R2V_LCD
27 GND
28 D5V_LCD
29 D5V_LCD
30 GND
CP6751
CP6752
CP6753
CP6754
CP6755
CP6756
CP6757
CP6758
CP6759
CP6760
CP6761
CP6762
CP6763
CP6765
CP6766
CP6767
CP6768
CP6769
CP6770
CP6771
CP6772
HP_CH1
HP_CH2
002:B3
HP_MUTE_H
002:D5
+9V_HP
-9V_HP
HP_GND
TP6751
D5V_LCD
001:B2
KEYS[1-5]
001:B7
KEYI[1-4]
001:K2
LED[0-6]
DGND
R6753 PAT/J3 U6754
R6754 PAT/J3 U6755
R6755 PAT/J3 U6756
C6751 0.01/UBV
C6750 0.01/UBV
FG1
TG6751 EYF6CU
6764
CP
U6751 VWJ1688
FLAT_CABLE to MAIN
PAT=PATTERN ONLY
Ref No. 6750 Series.
COMPONENT NAME
FRONT (CONNECT)
03/03
CIRCUIT BOARD NO.
VEP06F56A
DRAWING NO.
KR6A0023 (3/3)
SCM017
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

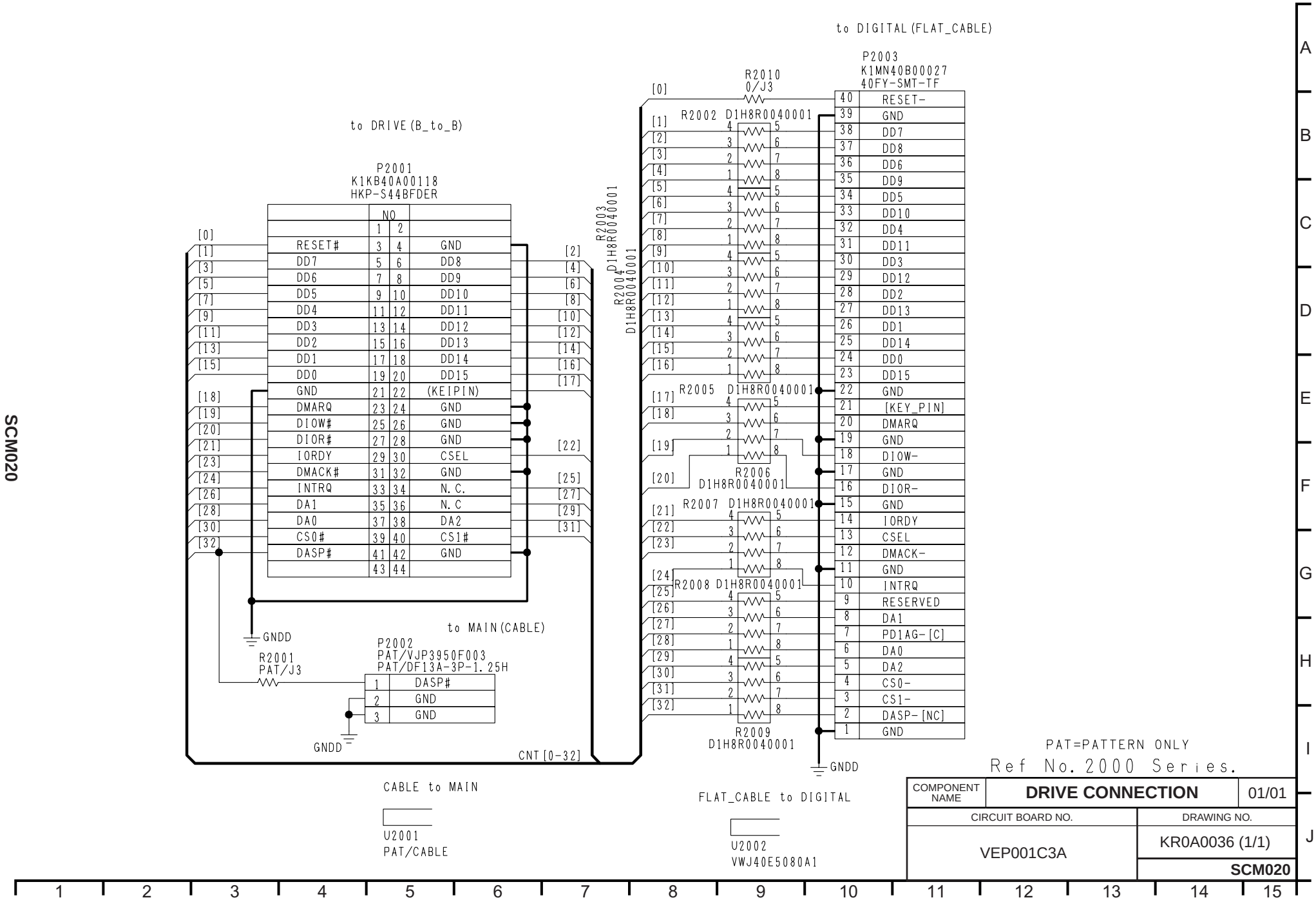

SCM018
PAT=PATTERN ONLY
Ref No. 4800 Series.
COMPONENT NAME
REAR JACK
01/01
CIRCUIT BOARD NO.
VEP04852A
DRAWING NO.
KR4A0010 (1/1)
SCM018



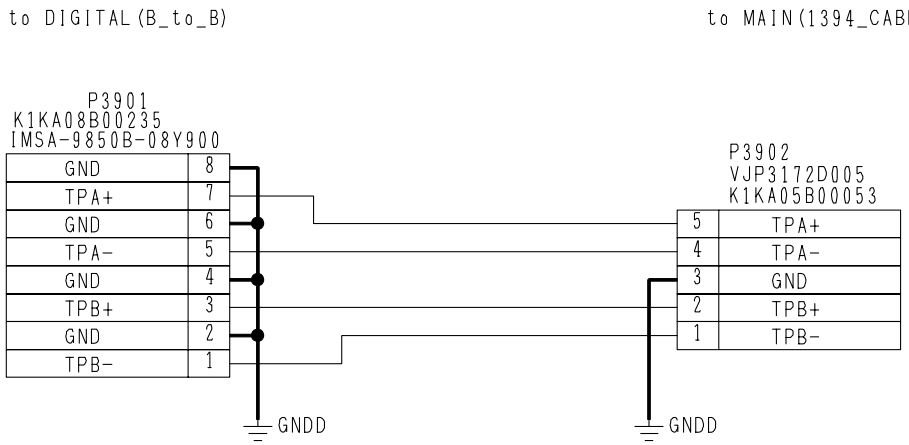
PAT=PATTERN ONLY

Ref No. 4900 Series.

COMPONENT NAME	MIC JACK	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04853A		KRA4A0011 (1/1)
		SCM019


SCM020
to DRIVE(B_to_B)
P2001
K1KB40A00118
HKP-S44BFDER
NO
RESET# GND
DD7 DD8
DD6 DD9
DD5 DD10
DD4 DD11
DD3 DD12
DD2 DD13
DD1 DD14
DD0 DD15
GND (KEIPIN)
DMARQ GND
DIOW# GND
DIOR# GND
IORDY CSEL
DMACK# GND
INTRQ N.C.
DA1 N.C
DA0 DA2
CS0# CS1#
DASP# GND
to DIGITAL(FLAT_CABLE)
P2003
K1MN40B00027
40FY-SMT-TF
R2010
0/J3
R2002 D1H8R0040001
R2003 D1H8R0040001
R2004 D1H8R0040001
R2005 D1H8R0040001
R2006 D1H8R0040001
R2007 D1H8R0040001
R2008 D1H8R0040001
R2009 D1H8R0040001
RESET-
GND
DD7
DD8
DD6
DD9
DD5
DD10
DD4
DD11
DD3
DD12
DD2
DD13
DD1
DD14
DD0
DD15
GND
[KEY_PIN]
DMARQ
GND
DIOW-
GND
DIOR-
GND
IORDY
CSEL
DMACK-
GND
INTRQ
RESERVED
DA1
PD1AG-[C]
DA0
DA2
CS0-
CS1-
DASP-[NC]
GND
GNDD
R2001
PAT/J3
to MAIN(CABLE)
P2002
PAT/VJP3950F003
PAT/DF13A-3P-1.25H
DASP#
GND
GND
GNDD
CNT[0-32]
CABLE to MAIN
U2001
PAT/CABLE
FLAT_CABLE to DIGITAL
U2002
VWJ40E5080A1
PAT=PATTERN ONLY
Ref No. 2000 Series.
COMPONENT NAME
DRIVE CONNECTION
01/01
CIRCUIT BOARD NO.
VEP001C3A
DRAWING NO.
KR0A0036 (1/1)
SCM020

SCM021



1394 CABLE to MAIN

U3901
VEE0Z32

PAT=PATTERN ONLY

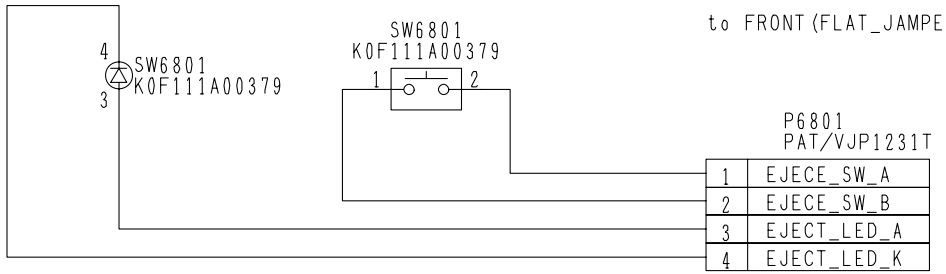
Ref No. 3900 Series.

COMPONENT NAME	DV JACK	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001C5A	KR0A0038 (1/1)	
	SCM021	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

SCM022



FLAT_JAMPER to FRONT

U6801
VWJ04D5020AA

PAT=PATTERN ONLY

Ref No. 6800 Series.

COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F57A		KR6A0024 (1/1)
		SCM022

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

CASING PARTS ASSEMBLY

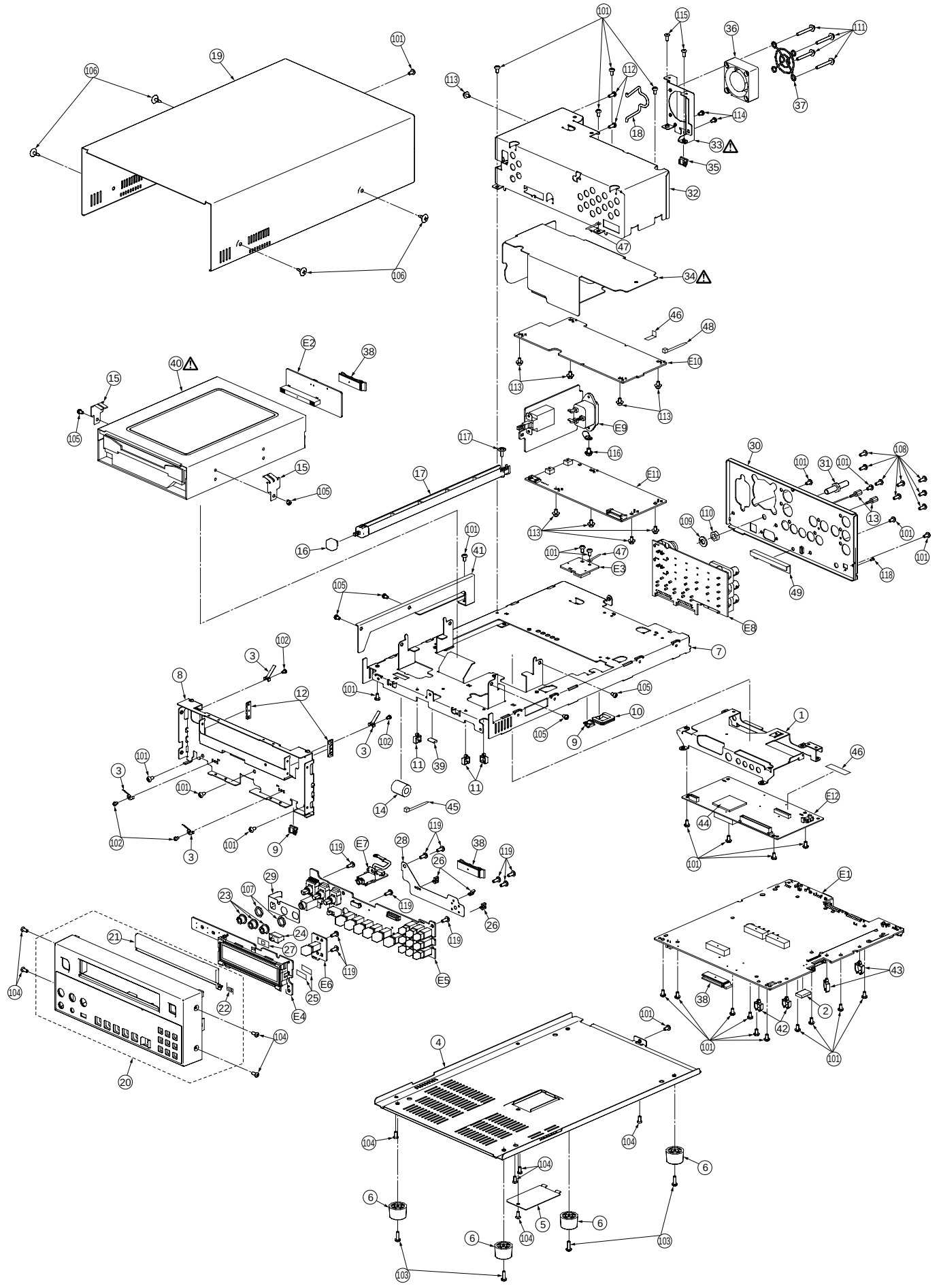
Components identified with the mark ⚠ have the special characterstics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP7928	DIGITAL ANGLE	1	
2	VMT1548	GASKET	1	
3	VMC1534	SHIELD ANGLE	4	
4	VKU0594	BOTTOM COVER	1	
5	VMP7953	BATTERY COVER	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP7872	CHASSIS	1	
8	VMP7927	FRONT CHASSIS	1	
9	VJF1007	EDGE SADDLE	2	
10	VJF1259	EDGE HOLDER	1	
11	VJF0456	BINDER	3	
12	VSC5459	FRONT EARTH ANGLE	2	
13	VMS6553	D SUB SCREW	2	
14	VLP0120	FERRITE CORE	1	
15	VSC5566	DRIVE EARTH ANGLE	2	
16	QGUG1040AA	POWER SWITCH BUTTON	1	
17	VML3838	POWER ROD	1	
18	VML2903	AC CORD HOOK	1	
19	VGM2071	FRAME	1	
20	VYP8885	FRONT PANEL U	1	
21	VKF3409	SHUTTER	1	
22	VMB3393	SHUTTER SPRING	1	
23	VGU6509	VOLUME KNOB	3	
24	VGU5582	SWITCH KNOB	1	
25	VMF0566	TAPE B	2	
26	VJF1273	CLAMPER	3	
27	VGF0687	SLIDE SW SHEET	1	
28	VMZ3446	FFC PROTECTOR	1	
29	VSC5601	VR EARTH	1	
30	VJH1241	JACK PLATE	1	
31	VJP3680	DIN PLUG	1	
32	VSC5560	POWER CASE	1	
⚠33	VMP7874	POWER FAN ANGLE	1	
⚠34	VMZ3408	INSULATION BARRIER	1	
35	VJF1007	EDGE SADDLE	1	
36	VRF0202	FAN MOTOR	1	L6FAHCBH0003
37	VGF0527	FAN GUARD	1	
38	VJF1058	CABLE CLAMPER	3	
39	VMT1549	GASKET	1	
⚠40	RD-DKL002-M	DRIVE U PACKAGE	1	
41	VMP8051	SUPPORT ANGLE	1	
42	VJF0442	MINI CLAMPER	2	
43	VJF0882	MINI CLAMPER	2	
44	VMZ3433	HEAT SINK	1	
45	VJF1157	HARNESS	1	
46	VMF0565	TAPE A	2	
47	VJF1443	CLAMPER	2	
48	VJF1158	CLAMPER	1	
49	VMP8098	BTB ANGLE	1	
50	VUVZT0256-12	TAPE	1	
101	XTB3+6F	SCREW	31	
102	XYN26+C4	SCREW	4	
103	XTB3+10FFZ	SCREW	4	
104	VHD1639FN	SCREW	9	
105	XYN3+C5	SCREW	6	
106	SNE2129	SCREW	4	
107	XNS9	NUT	2	
108	XTB3+8GFZ	SCREW	8	
109	XNG6C	NUT	1	
110	XWA6B	WASHER	1	
111	XYN3+F25FZ	SCREW	4	
112	XYN3+C8FZS	SCREW	2	
113	XYN3+F8	SCREW	9	
114	XYN3+C5	SCREW	2	
115	VHD1639FN	SCREW	2	
116	XYN4+E6VW	SCREW	1	
117	VHD0304	SCREW	1	
118	XQN16+C4FZ	SCREW	1	
119	XTB3+8G	SCREW	10	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E1	VEP06F54A	MAIN C.B.A.	1	
E2	VEP001C3A	DRIVE CONNECTION C.B.A.	1	
E3	VEP001C5A	DV JACK C.B.A.	1	
E4	VEP06F58A	LCD C.B.A.	1	
E5	VEP06F56A	FRONT C.B.A.	1	
E6	VEP06F57A	EJECT C.B.A.	1	
E7	VEP04853A	MIC JACK C.B.A.	1	
E8	VEP04852A	REAR JACK C.B.A.	1	
E9	VEP01942A	POWER 1 C.B.A.	1	
E10	VEP01943A	POWER 2 C.B.A.	1	
E11	VEP01944A	POWER 3 C.B.A.	1	
E12	VVRDDKK002P	DIGITAL C.B.A.	1	FOR LQ-MD800P
E12	VVRDDKK002E	DIGITAL C.B.A.	1	FOR LQ-MD800E

CASING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterstics for safety.
When replacing any of these components, use only the same type.



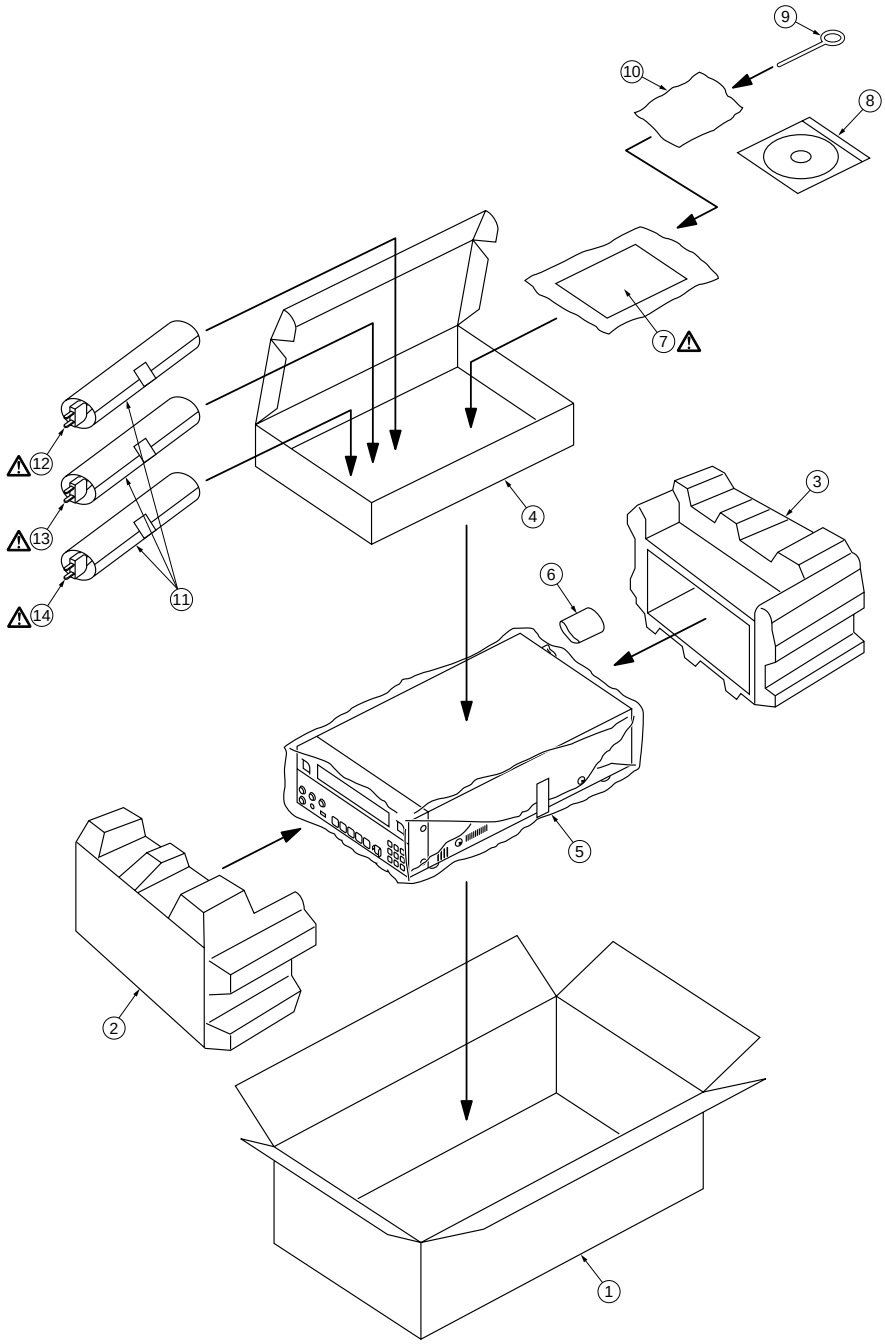
PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterstics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0W60	PACKING CASE	1	FOR LQ-MD800P
1	VPG0W61	PACKING CASE	1	FOR LQ-MD800E
2	VPN6127	CUSHION (F)	1	
3	VPN6128	CUSHION (B)	1	
4	VPN6129	ACCESSORY BOX	1	
5	VPF0884	POLYETHYLENE BAG	1	
6	VPF0892	POLYETHYLENE BAG (2)	1	
⚠7	VQT0H38	OPERATING INSTRUCTIONS	1	
⚠8	VYQ3155	OPERATING INSTRUCTIONS	1	(CD-ROM)
9	JZS0484	EJECT PIN	1	
10	VPF1016	POLYETHYLENE BAG	1	
11	VPF0136	CORD SHEET	1	
⚠12	VJA0796	POWER CODE	1	FOR LQ-MD800P
⚠13	VJA0738	POWER CODE	1	FOR LQ-MD800E
⚠14	VJA0746	POWER CODE	1	FOR LQ-MD800E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY



Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP06F54A	MAIN P.C.BOARD	1	(RTL)
■ E2	VEP001C3A	DRIVE CONNECTION P.C.B.	1	(RTL)
■ E3	VEP001C5A	DV JACK P.C.BOARD	1	(RTL)
■ E4	VEP06F58A	LCD P.C.BOARD	1	(RTL)
■ E5	VEP06F56A	FRONT P.C.BOARD	1	(RTL)
■ E6	VEP06F57A	EJECT P.C.BOARD	1	(RTL)
■ E7	VEP04853A	MIC JACK P.C.BOARD	1	(RTL)
■ E8	VEP04852A	REAR JACK P.C.BOARD	1	(RTL)
■ E9	VEP01942A	POWER 1 P.C.BOARD	1	(RTL)
■ E10	VEP01943A	POWER 2 P.C.BOARD	1	(RTL)
■ E11	VEP01944A	POWER 3 P.C.BOARD	1	(RTL)
■ E12	VVRDDKK002P	DIGITAL P.C.BOARD	1	(RTL)FOR LQ-MD800P
■ E12	VVRDDKK002E	DIGITAL P.C.BOARD	1	(RTL)FOR LQ-MD800E
■ E1	VEP06F54A	MAIN P.C.BOARD	1	(RTL)
B6651	BCR20H4	BUTTON BATTERY HOLDER	1	
BZ6651	VSQ0813	BUZZER	1	L0DCDA000001
C3001	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C3002,03	ECJ1VC1H560J	C.CAPACITOR CH 50V 560P	2	
C3004	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3005	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C3006,07	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C3008	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3009	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3010	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C3011,12	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C3014	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3015-18	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	4	
C3019	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3020	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3021,22	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3023,24	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C3025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3026	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3027	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3029	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C3030-32	EEEHB0J470	E.CAPACITOR 6.3V 47U	3	
C3033	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3035	EEEHB0J102UP	E.CAPACITOR 6.3V 1000U	1	
C3036	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C3038	EEEHB0J102UP	E.CAPACITOR 6.3V 1000U	1	
C3039	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C3041	EEEHB0J102UP	E.CAPACITOR 6.3V 1000U	1	
C3042	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C3043,44	EEEHB0J331P	E.CAPACITOR 6.3V 330U	2	
C3045	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3046	ECJ1VC1H560J	C.CAPACITOR CH 50V 560P	1	
C3048-50	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C3052-54	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C3056	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3058,59	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3062	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3067	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3068	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3069,70	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3072	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3074	ECJ1VB1C473K	C.CAPACITOR CH 16V 0.047U	1	
C3075	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3077	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3078	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3080	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3084	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3090	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C3092	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C3093	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3094	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C3095,96	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C3101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4001,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4003-05	EEEHP1C100R	E.CAPACITOR 16V 10U	3	
C4006	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4007	EEEHP1C100R	E.CAPACITOR 16V 10U	1	
C4008	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C4009	EEEHB1C100	E.CAPACITOR 16V 10U	1	
C4010-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C4013	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4014	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4015	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4016	EEEHB1E220P	E.CAPACITOR 25V 22U	1	
C4017	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C4018	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C4019-21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C4022,23	EEEHB1C100	E.CAPACITOR 16V 10U	2	
C4024,25	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4026,27	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4028-30	EEEHB1C100	E.CAPACITOR 16V 10U	3	
C4031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4032	EEEHB1C100	E.CAPACITOR 16V 10U	1	
C4033	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4201-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C4204,05	EEEHB1C100	E.CAPACITOR 16V 10U	2	
C4206	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4207,08	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	2	
C4209,10	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	2	
C4215,16	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4223	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4224	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4225,26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4227	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4229-31	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	3	
C4232,33	EEEHP1A330P	E.CAPACITOR 10V 33U	2	
C4234	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C4235,36	EEEHP1C100R	E.CAPACITOR 16V 10U	2	
C4237,38	EEEHP1H1R0R	E.CAPACITOR 50V 1U	2	
C4239	EEEHP1A330P	E.CAPACITOR 10V 33U	1	
C6001-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6006	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6009	EEEHB1E220P	E.CAPACITOR 25V 22U	1	
C6010	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6011	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6015	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6016	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6020	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6021	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6025	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6026,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6031	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6032-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6035	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6201	EEFCD1C8R2R	E.CAPACITOR 16V 8.2U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6202	F2H1D470A004	E.CAPACITOR 20V 47U	1	
C6203	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C6205	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C6208	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6209	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6210	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6211	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6212	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6214	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6218	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6219	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6223	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6224	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6225,26	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C6227	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6228	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6230	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6231	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6234	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6235	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6237	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6243	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6244	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6245	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6247	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6248	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6249	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6250,51	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C6252	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C6253	F2H1C8200001	E.CAPACITOR CH 16V 82U	1	
C6254-56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6257	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6258,59	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6260	F1H1C104A042	C.CAPACITOR CH 16V 0.1U	1	
C6261	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6262	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6264	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6265	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6266	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6267	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6268	EEEHB1C220R	E.CAPACITOR 16V 22U	1	
C6270	F1K1E1050001	C.CAPACITOR CH 25V 1U	1	
C6271,72	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C6273	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6274	ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
C6275	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C6276	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C6277	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C6278	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C6279	F2H0J2210003	E.CAPACITOR CH6.3V 220U	1	
C6280	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C6281	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6301,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6303	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6304-06	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C6308	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6310	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6311	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6312	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6313	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6316,17	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C6318	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C6319	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6320	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6321	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C6322-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C6326-29	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C6330	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6331	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6332	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6334	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C6335	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6336	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C6337	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6339	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6340-43	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C6344	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C6345,46	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6347	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C6352	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6353,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6360	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6361	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6363,64	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6365	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6601,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6603	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6605,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6607	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C6610	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6612	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6614	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6615	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6616	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6651,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6653	EEEHB0J101	E.CAPACITOR 6.3V 100U	1	
C6654	EEEHB0J470	E.CAPACITOR 6.3V 47U	1	
C6655-57	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
D3001	MA142K	DIODE	1	
D4001	MA142WA	DIODE	1	
D4002	MA716	DIODE	1	
D4202,03	MA716	DIODE	2	
D4204-06	MA142WA	DIODE	3	
D6010	MA8039-L	DIODE	1	
D6011	MA716	DIODE	1	
D6201-03	SFPB-76V	DIODE	3	
D6204	MA142WA	DIODE	1	
D6270	MA720	DIODE	1	
D6271	SFPB-76V	DIODE	1	
D6301	MA716	DIODE	1	
D6651	MA704WK	DIODE	1	
D6652,53	MA142K	DIODE	2	
IC3001	C9ZB00000377	VIDEO BUFFER	1	
IC3002	C1AB00001805	IC	1	
IC4001	NJM78L09UA	IC	1	C0CBAHC00002
IC4002	THC4052FT	IC	1	
IC4003	NJM79L09UA	IC	1	C0CABBF00001
IC4004	C0ABBB000184	IC	1	
IC4005	C0CBBDB00004	IC	1	
IC4006,07	C0ABBB000184	IC	2	
IC4008	C0CBBDB00004	IC	1	
IC4009,10	C0ABBB000184	IC	2	
IC4201,02	C0ABBB000184	IC	2	
IC4203	C0JBAS000075	IC	1	
IC4205-07	C0ABBB000184	IC	3	
IC4209	C0JBAS000075	IC	1	
IC4210	C0ABBB000184	IC	1	
IC6002	NJM431U	IC	1	C0DBEZC00003
IC6003	C0JBAN000108	IC	1	
IC6005,06	TVHT374FT	IC	2	
IC6009	C0ABBA000071	IC	1	
IC6010	C0JBAE000135	IC	1	
IC6011	C0ABBA000071	IC	1	
IC6012	NJM78L09UA	IC	1	C0CBAHC00002
IC6013	NJM79L09UA	IC	1	C0CABBF00001
IC6201	C0DBZHE00014	IC	1	
IC6202	C0DBEFG00002	IC	1	
IC6203	C0DBZHE00014	IC	1	
IC6205	C0DBZFG00012	IC	1	
IC6206	C0DBZHG00012	IC	1	
IC6207	C0DBZGG00010	IC	1	
IC6208	C0DBZHE00014	IC	1	
IC6209	C0DBAZF00003	IC	1	
IC6210	C0DBEZG00010	IC	1	
IC6211	C0DBZHE00014	IC	1	
IC6270	C0DBAGH00030	IC	1	
IC6301	C0EBE0000233	IC	1	
IC6302	C0ZBZ0000837	IC	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC6303	C0EBF0000182	IC	1	
IC6313	C0JBAB000553	IC	1	
IC6315	C0JBAR000282	IC	1	
IC6316	C3ZBF0000011	IC	1	
IC6317	TC7SZ126FU	IC	1	
IC6320	C0EBE0000130	IC	1	
IC6601	C0JBAZ001121	IC	1	
IC6603-05	TVHT541FT	IC	3	
IC6606	C0DBZHE00014	IC	1	
IC6611	TC7SZ126FU	IC	1	
IC6651	C0BBBA000030	IC	1	
ID6309	VVVSI4199C	SOFTWARE	1	DOWNLOAD ONLY
IP6309	C2CBJH000056	IC	1	
J6201,02	K4CD01000007	CABLE TERMINAL	2	
J6203	VJR1008	CABLE TERMINAL	1	
J6204,05	K4CD01000007	CABLE TERMINAL	2	
J6207	K2HZ104B0006	JACK	1	
J6208-11	K4CD01000007	CABLE TERMINAL	4	
J6301	VJJ0526	JACK	1	K2HC103B0047
J6302	K1FA104B0011	CONNECTOR (MALE)	1	
L3001	VLQ0163J120	COIL 12UH	1	G1C120J00001
L3002,03	VLQ0163J6R8	COIL 6.8UH	2	G1C6R8J00007
L3004	VLQ0163J4R7	COIL 4.7UH	1	G1C4R7J00004
L3005	VLQ0163J120	COIL 12UH	1	G1C120J00001
L3006	VLQ0163J220	COIL 22UH	1	
L3007-10	VLQ0163J120	COIL 12UH	4	G1C120J00001
L3011	VLQ0163J220	COIL 22UH	1	
L3012,13	VLQ0163J4R7	COIL 4.7UH	2	G1C4R7J00004
L3014,15	J0JHC0000032	FILTER	2	
L3016-18	VLQ0163J4R7	COIL 4.7UH	3	G1C4R7J00004
L3019,20	J0JHC0000032	FILTER	2	
L4001,02	J0JHC0000032	FILTER	2	
L4003	J0JCC0000063	FILTER	1	
L4005,06	J0JCC0000063	FILTER	2	
L4008	J0JCC0000063	FILTER	1	
L4010	J0JCC0000063	FILTER	1	
L4011	J0MAB0000155	FILTER	1	
L4012,13	J0JHC0000032	FILTER	2	
L6002,03	J0JHC0000032	FILTER	2	
L6004,05	J0JCC0000063	FILTER	2	
L6014	J0JHC0000032	FILTER	1	
L6015-17	J0JCC0000063	FILTER	3	
L6201-04	VLP0183	COIL	4	J0JKC0000007
L6206,07	J0JHC0000032	FILTER	2	
L6209	G1A330F00004	COIL 33UH	1	
L6210	G1A680E00002	COIL 68UH	1	
L6211	G1A330F00004	COIL 33UH	1	
L6212,13	J0JHC0000032	FILTER	2	
L6270	J0JBC0000023	FILTER	1	
L6271	G1A4R7H00002	COIL 4.7UH	1	
L6272	J0JKC0000009	FILTER	1	
L6273	VLQ0859M220	COIL 22UH	1	
L6274	G1A4R7H00002	COIL 4.7UH	1	
L6301	J0JHC0000032	FILTER	1	
L6302	J0MAB0000140	FILTER	1	
L6303	J0JHC0000032	FILTER	1	
L6305-08	J0JHC0000032	FILTER	4	
P4001	K1KA05A00235	CONNECTOR (MALE)	1	
P4002	K1KA08A00301	CONNECTOR (MALE)	1	
P6003	VJS3791B030	CONNECTOR (FEMALE)	1	
P6201,02	K1KB20B00033	CONNECTOR (FEMALE)	2	
P6203	VJP3926B022	CONNECTOR (MALE)	1	
P6204-06	K1KA30A00204	CONNECTOR (MALE)	3	
P6208	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P6301	VJS3365B009	CONNECTOR (FEMALE)	1	K1FB209B0009
P6302,03	VJP3950A006	CONNECTOR (MALE)	2	
Q3001	2SC3930	TRANSISTOR	1	
Q3002-04	2SB1218A-R	TRANSISTOR	3	
Q3005	2SA1532-B	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3006	2SB1218A-R	TRANSISTOR	1	
Q3007,08	2SD1819A-R	TRANSISTOR	2	
Q4001-03	2SD1819A-R	TRANSISTOR	3	
Q4201	2SB1218A-R	TRANSISTOR	1	
Q4202-06	2SD1328-S	TRANSISTOR	5	
Q6201	B1DHED000008	TRANSISTOR	1	
Q6270,71	B1DFFD000006	FET	2	
Q6651-53	2SD1819A-R	TRANSISTOR	3	
QR3001-05	UNR521300L	TRANSISTOR	5	
QR3006,07	UNR521100L	TRANSISTOR	2	
QR3008	UNR521300L	TRANSISTOR	1	
QR3009	UNR521100L	TRANSISTOR	1	
QR4001-03	UNR521100L	TRANSISTOR	3	
QR4201-06	UNR521100L	TRANSISTOR	6	
QR6010	UNR521100L	TRANSISTOR	1	
QR6202-06	UNR521100L	TRANSISTOR	5	
QR6301	UNR521400L	TRANSISTOR-RESISTOR	1	
QR6302,03	UNR511200L	TRANSISTOR	2	
QR6601	UNR521400L	TRANSISTOR-RESISTOR	1	
QR6602	UNR511400L	TRANSISTOR-RESISTOR	1	
QR6651	UN5212	TRANSISTOR-RESISTOR	1	
QR6652	UNR511200L	TRANSISTOR	1	
R3001-05	ERJ3RBD561	M.RESISTOR CH 1/16W 560	5	
R3006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3008,09	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R3011-13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	3	
R3014	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3015-17	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3018	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3019	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3020,21	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3022	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3023,24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3025,26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3027,28	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R3029,30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3031,32	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R3033,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3035,36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3037	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R3038,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3041	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3043	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3052	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3053	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3054	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3056	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3057	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3061,62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3081	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3082	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3083	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3087	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3088,89	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R3094	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R3096	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3098	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3099	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4001	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4003,04	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R4005	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4006	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4008	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4009,10	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	2	
R4013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4016,17	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R4019	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4023	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4025	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4026	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4027	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4030	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4032,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4034,35	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	2	
R4036,37	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4038,39	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4040,41	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	2	
R4042,43	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4044,45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4046	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R4047,48	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4049,50	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	2	
R4201-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4204-07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4208	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4209,10	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4211,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4213,14	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4215,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4217,18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4221,22	ERJ3RBD163	M.RESISTOR CH 1/16W 16K	2	
R4223-28	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	6	
R4229	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4230-34	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	5	
R4235,36	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R4237,38	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4239	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4240,41	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4242,43	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4244-46	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R4247,48	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4249	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R4250	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4251	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R4252	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4253	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R4254-56	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R4257-59	ERJ3RBD121	M.RESISTOR CH 1/16W 120	3	
R4266,67	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R4268	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6008,09	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R6011	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6016-19	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R6020	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6023	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R6028-30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6031	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6036	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6039	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6040,41	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6042	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6045,46	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6052	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6057,58	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R6059	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R6060	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6063	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R6070-72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R6073	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6074	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6201	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6205,06	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R6209	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6210	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R6212	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6216	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R6217	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6218	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R6219,20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R6223	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R6224	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6225	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R6226	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R6229,30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R6231	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R6232	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6233	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6270-72	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6273	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R6274	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R6275	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6276	VRE0202H15M	M.RESISTOR CH 100K	1	
R6278	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6279	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6281,82	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6301	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R6304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6307	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6311	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6312	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6318	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6321	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6322,23	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	2	
R6324	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6325,26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6327	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6328-30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6331	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6332-34	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6335	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6336	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6337	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6338	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6339,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6341	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6343	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6344	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6345-47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6348-50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R6351	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6352	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6353,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6355	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6356	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R6357-59	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R6361	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6362	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6363	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6364	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6365	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6366	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6367	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6368	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6369	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6370	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6371	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6372	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6373	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6374	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6375	D1H84704A008	COMBI.R-R 47	1	
R6376,77	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R6378	D1H84704A008	COMBI.R-R 47	1	
R6379	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6380	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6381	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6383-87	D1H8R0040001	COMBI.R-R 0	5	
R6389	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6391,92	D1H8R0040001	COMBI.R-R 0	2	
R6393	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6394	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6400-02	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	3	
R6403	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6404,05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6406,07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6408	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6410,11	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R6412	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6413-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R6416,17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6418	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6419	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6420	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6421	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6423	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R6424	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R6601	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6603	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6604	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6605	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6606	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6607	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6609	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6610	D1H84704A008	COMBI.R-R 47	1	
R6611	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6612	D1H84704A008	COMBI.R-R 47	1	
R6613-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R6616	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6618-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R6623	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6627	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6637	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6638	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6639	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6640	D1H84704A008	COMBI.R-R 47	1	
R6643	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6644	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6645	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6646	ERJ8GEYJ331	M.RESISTOR CH 1/8W 330	1	
R6648	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6649	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6651	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6652	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R6653-55	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	3	
R6656	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6657,58	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	2	
R6660	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R6661	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6662,63	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	2	
R6664	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R6665	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6666	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6667	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
SW6302	VSS0367-06B	SWITCH	1	K0D161A00001
TG3001	EYF6CU	TEST POINT	1	
TG4001	EYF6CU	TEST POINT	1	
TG6201-05	EYF6CU	TEST POINT	5	
U6301	VEE0Z27	CABLE 1	1	
U6651	CR2032	BATTERY	1	
X6301	H0J160500045	CRYSTAL OSCILLATOR	1	
X6302	H1Z3272B0006	CRYSTAL OSCILLATOR	1	
■ E2	VEP001C3A	DRIVE CONNECTION P.C.B.	1	(RTL)
P2001	K1KB40A00118	CONNECTOR (FEMALE)	1	
P2003	K1MN40B00027	CONNECTOR	1	
R2002-09	D1H8R0040001	COMBI.R-R 0	8	
R2010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
U2002	VWJ40E5080A1	FLEX. CABLE	1	
■ E3	VEP001C5A	DV JACK P.C.BOARD	1	(RTL)
P3901	K1KA08B00235	CONNECTOR (MALE)	1	
P3902	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
U3901	VEE0Z32	DV CABLE	1	
■ E4	VEP06F58A	LCD P.C.BOARD	1	(RTL)
C6501-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C6505	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6506	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C6508	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6510	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6514,15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C6516	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C6517-20	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
D6504	B3ACB0000013	LED	1	
D6505,06	LN1351C	DIODE	2	
DP6501	L5ACAKC00002	LCD PANEL	1	
IC6501,02	C0JBAQ000168	IC	2	
IC6503	C0HBA0000152	LCD DRIVER	1	
JP6501,02	K4ZZ01000199	TERMINAL	2	
L6501-03	J0JCC0000063	FILTER	3	
P6501	K1KB40A00013	CONNECTOR (FEMALE)	1	
P6502	VJP3950F003	CONNECTOR	1	
QR6501-07	UNR521400L	TRANSISTOR-RESISTOR	7	
QR6511-13	UNR521400L	TRANSISTOR-RESISTOR	3	
R6501-06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R6513	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6515	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6517-26	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	10	
R6530	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6531	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	1	
R6535-37	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	3	
R6538,39	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R6540	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
TG6501	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	VJF1487	LCD HOLDER R	1	
	VJF1488	LCD HOLDER L	1	
	A4LZFC000003	BACK LIGHT	1	
■ E5	VEP06F56A	FRONT P.C.BOARD	1	(RTL)
C4701-05	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	5	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4706,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C4708,09	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6750,51	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
D6701-17	MA142K	DIODE	17	
IC4700	C0ABBB000184	IC	1	
J4701	VJJ0571	JACK	1	
L4702-05	J0JCC0000063	FILTER	4	
P4701	VJP3950F008	CONNECTOR (MALE)	1	
P6751	K1KB40A00106	CONNECTOR (FEMALE)	1	
P6752	K1MN30B00085	CONNECTOR	1	
Q4701,02	2SD1328-S	TRANSISTOR	2	
R4701,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4703,04	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4705,06	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R4707,08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R6701-07	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	7	
SW6701,02	VSP0864A000	SWITCH	2	K0F111A00243
SW6703,04	VSP0853A000	SWITCH	2	K0F111A00235
SW6705	K0F111A00464	SWITCH	1	
SW6706	VSP0864A000	SWITCH	1	K0F111A00243
SW6707	VSP0864E000	SWITCH	1	K0F111A00275
SW6708-10	VSP0853A000	SWITCH	3	K0F111A00235
SW6711	VSP0864A000	SWITCH	1	K0F111A00243
SW6712-14	VSP0853A000	SWITCH	3	K0F111A00235
SW6715	VSP0864A000	SWITCH	1	K0F111A00243
SW6716	VSS0250	SWITCH	1	K0D112A00104
TG6751	EYF6CU	TEST POINT	1	
U4701	VEE0Z06	LINE INPUT CABLE	1	
U6751	VWJ1688	FRONT CABLE	1	
VR4701	D2BGC24Z0001	V.RESISTOR 20K	1	
VR4702,03	D2BEA5310002	V.RESISTOR 5K	2	
■ E6	VEP06F57A	EJECT P.C.BOARD	1	(RTL)
SW6801	K0F111A00379	SWITCH	1	
U6801	VWJ04D5020AA	FLEX. CABLE	1	
■ E7	VEP04853A	MIC JACK P.C.BOARD	1	(RTL)
C4901-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	3	
C4904	EEEHB1C100	E.CAPACITOR 16V 10U	1	
C4905	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C4906	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4907,08	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
IC4901	C0ABBB000184	IC	1	
J4901	K2HC103B0155	JACK	1	
L4901	J0JCC0000063	FILTER	1	
L4903	J0JCC0000063	FILTER	1	
P4901	VJP3950F005	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4901	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
R4902,03	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	2	
R4904	ERJ3RBD163	M.RESISTOR CH 1/16W 16K	1	
R4905	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
U4901	VEE0Z07	POWER CABLE U	1	
U4902	VEE9862	EARTH CABLE	1	
		MISCELLANEOUS		
	VMP7875	MIC ANGLE	1	
■ E8	VEP04852A	REAR JACK P.C.BOARD	1	(RTL)
C4801-05	D4ED1220A006	VARISTOR	5	
C4806-09	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4811	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C4826	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4828-37	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	10	
D4801	MA157A	DIODE	1	
D4806,07	MA157A	DIODE	2	
D4809-11	MA157A	DIODE	3	
J4801	K2HA308A0001	JACK	1	
J4802	K2HA205A0004	JACK	1	
J4803	K1QBB1AA0011	CONNECTOR (FFMALE)	1	
J4804,05	K4BA04A00002	TERMINAL	2	
J4807	YWP2284	CONNECTOR	1	
J4808	K1QBB1AA0011	CONNECTOR (FFMALE)	1	
L4801	J0JCC0000063	FILTER	1	
L4803-11	J0JCC0000063	FILTER	9	
L4813-16	J0JCC0000063	FILTER	4	
L4820	J0JCC0000063	FILTER	1	
P4801,02	K1KA20B00113	CONNECTOR (MALE)	2	
Q4801	2SB1218A-R	TRANSISTOR	1	
R4802-06	ERJ3RED750	M.RESISTOR CH 1/16W 75	5	
R4808,09	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R4811	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R4814,15	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R4816	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4817	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4819	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
■ E9	VEP01942A	POWER 1 P.C.BOARD	1	(RTL)
⚠ C1001	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ F1001,02	VSF0106C25H	FUSE	2	
FH1001-04	EYF52BC	FUSE HOLDER	4	
⚠ L1001	ELF19N010A	COIL 1UH	1	
L1002,03	VLP0083	COIL	2	J0JKB0000011
⚠ P1001	VJS2985	CONNECTOR (FEMALE)	1	K2AH3H000012
P1002	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
⚠ R1001	ERC12AGM334C	S.RESISTOR 1/2W 33K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ SW1001	K0ADKF000003	POWER SWITCH	1	
U1001	VEE8828	CABLE	1	
■ E10	VEP01943A	POWER 2 P.C.BOARD	1	(RTL)
⚠ C1101,02	ECQU2A224ML	P.CAPACITOR 100V 0.22U	2	
⚠ C1103,04	VCK0262K221A	C.CAPACITOR 220P	2	F1BAH2210001
⚠ C1106	F1BAH331A004	C.CAPACITOR 330P	1	
C1107	EETHC2W221K	E.CAPACITOR 450V 220U	1	
C1108	EEUEB1H470B	E.CAPACITOR 50V 47U	1	
C1109,10	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1112	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1114,15	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1116	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C1117	EEUFC1E331	E.CAPACITOR 25V 330U	1	
C1118,19	EEUFC1A331	E.CAPACITOR 10V 330U	2	
C1121,22	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
⚠ C1123	F1BAH331A004	C.CAPACITOR 330P	1	
C1127	EEUEB1H1R0SB	E.CAPACITOR 50V 1U	1	
C1128,29	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1130-32	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	3	
D1101	D3SBA60	DIODE	1	B0EBNR000007
D1102,03	B0ECKR000003	DIODE	2	
D1104	SFPL-52	DIODE	1	
D1105,06	MA152K	DIODE	2	
IC1101	C0DBZGH00001	IC	1	
IC1102	M51945BL	IC	1	C0EAB0000004
⚠ IC1103	ETXMM490X4C	POWER MODULE	1	
JP1101-04	VJR1008	EARTH LUG	4	
⚠ L1101,02	ELF19N010A	COIL 1UH	2	
L1103	J0JKC0000009	FILTER	1	
L1108-10	VLQ0655M3R3	COIL 3.3UH	3	
P1101	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
⚠ PC1101	PC111LY1	PHOTO COUPLER	1	
R1101	ERU5TEK2R2	F.RESISTOR 5W 2.2	1	
R1102,03	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	D0GD221JA003
R1104-07	ERJ12NF1503	M.RESISTOR CH 1/2W 150K	4	
R1108	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1109	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R1110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1111	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1112	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1120	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1121	ERJ14YJ102	M.RESISTOR CH 1/4W 1K	1	
R1122	ERJ14YJ562	M.RESISTOR CH 1/4 5.6K	1	
R1124	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
U1101	VEE0Z00	POWER 2 CABLE U	1	
		MISCELLANEOUS		
⚠	VMZ1686	CAPACITOR COVER	4	
	VEE0Z02	AC CABLE U	1	
■ E11	VEP01944A	POWER 3 P.C.BOARD	1	(RTL)
C1202	ECA1CHG101	E.CAPACITOR 16V 100U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1208	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1212	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1215-17	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	3	
C1219,20	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1222-26	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	5	
C1232-34	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C1235,36	ECA1CHG101	E.CAPACITOR 16V 100U	2	
C1237	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1301	ECA1EHG470	E.CAPACITOR 25V 47U	1	
C1302-05	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	4	
C1306,07	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C1308	ECA1HHG100	E.CAPACITOR 50V 10U	1	
C1309	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1310	ECA1EHG470	E.CAPACITOR 25V 47U	1	
C1311	ECA1HHG3R3	E.CAPACITOR 50V 3.3U	1	
C1312	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1313	ECA1HHG100	E.CAPACITOR 50V 10U	1	
C1314	ECA1CHG101	E.CAPACITOR 16V 100U	1	
C1315	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
D1203	MA152WA	DIODE	1	
D1207,08	DE5SC4M-4061	DIODE	2	B0JDRE000001
D1212,13	DE5SC4M-4061	DIODE	2	B0JDRE000001
D1214	SFPB-76V	DIODE	1	
D1301	MA152WK	DIODE	1	
D1305	MA152K	DIODE	1	
D1306	MA152WA	DIODE	1	
D1307	MA8062-M	DIODE	1	
D1309	MA152K	DIODE	1	
D1310	MA152WK	DIODE	1	
D1311	MA8180-M	DIODE	1	
D1312,13	MA8082-H	DIODE	2	
D1315,16	MA152WK	DIODE	2	
D1317	MA8051-M	DIODE	1	
D1318	MA8062-M	DIODE	1	
D1320,21	MA152K	DIODE	2	
D1322	MA720	DIODE	1	
D1323	MA152K	DIODE	1	
IC1301	AN1431M	IC	1	
IC1302	C0BBBA000019	IC	1	
JP1201-04	VJR1008	EARTH LUG	4	
L1201	G1C100KA0002	COIL 10UH	1	
L1203	VLQ0655K220	COIL 22UH	1	
L1301	G1C100KA0002	COIL 10UH	1	
P1201	K1KA10A00217	CONNECTOR (MALE)	1	
P1202	VJP3926B022	CONNECTOR (MALE)	1	
P1203	K1KA04B00056	CONNECTOR (MALE)	1	
P1207	VJP1243T	CONNECTOR (MALE) 3P	1	K1KA03B00012
Q1201	B1DHED000008	TRANSISTOR	1	
Q1203	B1DHED000008	TRANSISTOR	1	
Q1205	2SD1119-R	TRANSISTOR	1	
Q1301-04	XN0440100L	TRANSISTOR	4	
Q1305	XN4501	TRANSISTOR-RESISTOR	1	
Q1307	XN4501	TRANSISTOR-RESISTOR	1	
QR1202	UN2211	TRANSISTOR-RESISTOR	1	
QR1204	UN2211	TRANSISTOR-RESISTOR	1	
QR1302	UNR211L00L	TRANSISTOR-RESISTOR	1	
QR1303	UN2111	TRANSISTOR-RESISTOR	1	
QR1304-06	UN2211	TRANSISTOR-RESISTOR	3	
QR1307	UN2111	TRANSISTOR-RESISTOR	1	
R1201	ERJL1WKJ50M	M.RESISTOR CH 1W	1	
R1202,03	ERJL1WKJ39M	M.RESISTOR CH 1W	2	
R1207	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R1209	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1211	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1213	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1217	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1221	ERJL1WKJ39M	M.RESISTOR CH 1W	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1224,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1230	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1232,33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1237	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1238	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1239	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1301	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1303	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1304	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1305	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1307	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1308	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1309	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1310	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1312	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1313	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1314	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1315	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1317,18	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R1323	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1324,25	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R1329	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1330,31	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	2	
R1332	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1333	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1334	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1335	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1336	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1337	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1338	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1341	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1342	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1343	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1344	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1345	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1347,48	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R1349	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1351	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1352	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
U1201	VEE0Y99	POWER 1 CABLE U	1	
U1202	VEE0Z05-1	RAM CABLE	1	

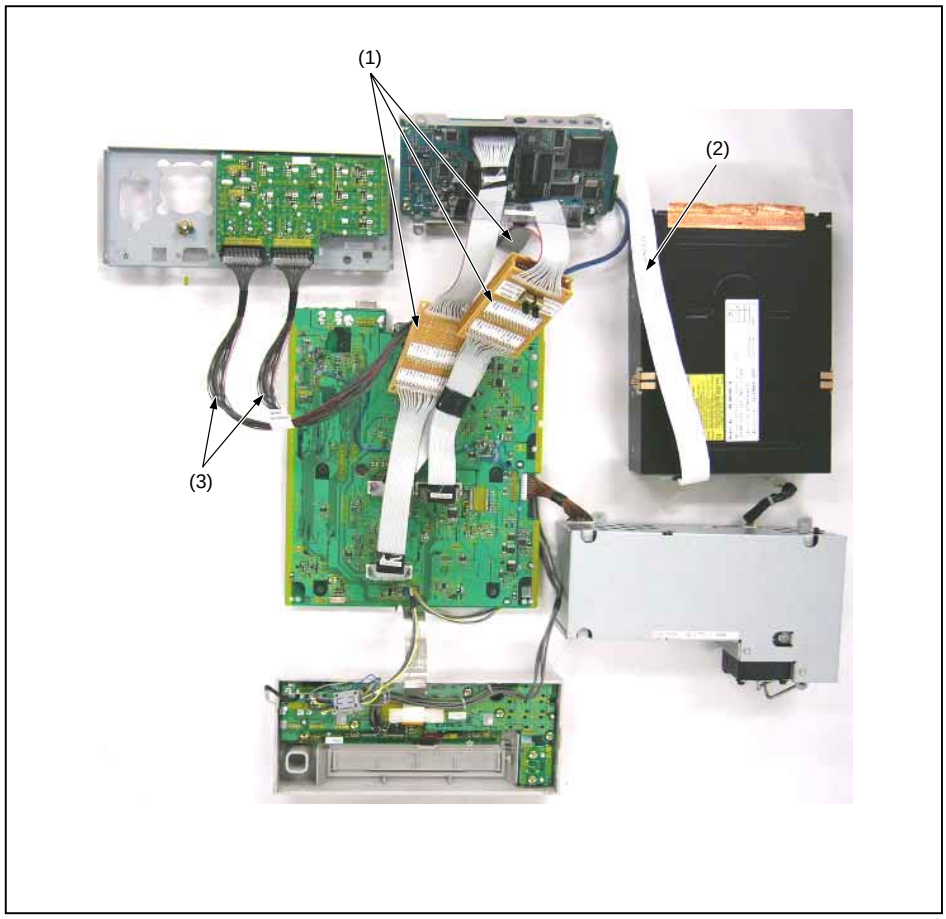
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

1. SERVICING FIXTURES AND TOOLS

1-1. Extension Cable for service position

Using the following Extension Cables, place the unit as shown for check and service.
Extension Cable (No.1-No.3) are used for improving serviceability. (Used only for servicing.)

No	Parts No.	NAME	CONNECTION
1	RFKZ0164	30Pin x3 Extension Cable	P9001,P9002,P9003 on Main C.B.A.-P6204,P6205,P6206 on Digital C.B.A.
2	RFKZ0125	40Pin Extension FFC	P3401 on Digital C.B.A.-P2003 on Drive connection
3	RFKZ0165	20Pin Extension Cable	P6201 on Main C.B.A.-P4801 on Rear jack C.B.A.
			P6202 on Main C.B.A.-P4801 on Rear jack C.B.A.



2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance service in order to maintain the functions in the best condition, so that the user can use the equipment safely. LQ-MD800 has parts that wear and their wear and deterioration may impair operation. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

2-1. Maintenance Chart

The following periodic maintenance is required to maintain product in good condition

No.	Part Name	Part No.	Replacement	Remark
1	DVD RAM Drive	RD-DKL002-M	Every 3000 hours	
2	Fan motor	L6FAHCBH0003	Every 10000 hours	
3	Lithium battery	CR2032	About 3 Years	

Note:
Replacement hours are recommendation only. Actual hours will depend on temperature, humidity or dust.
Replacement hours are listed as the reference of maintenance. They do not mean guarateed hours.
HOUR METER can be reset by service mode (Refer to item in 5-2.)

Make sure to order replacement parts listed in service manual only.

3. EMERGENCY EJECT

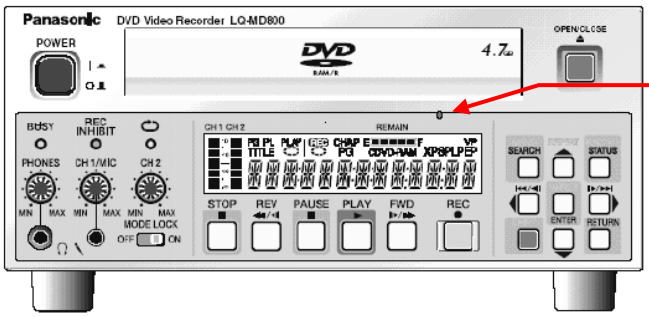
When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit by using the following method.

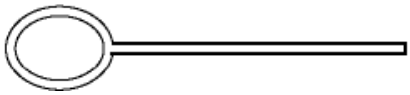
1. Method by the operation button

1. Press [SHIFT] and [OPEN/CLOSE] together for 5 seconds to open the tray.
   NOTE: After ejecting the disc, turn the unit off and then turn it on again.

2. Method by manually

1. Make sure the unit is OFF.
2. Insert the included emergency eject pin into the emergency ejection hole, pushing horizontally 4 or 5 times. (Turn the gear with an emergency eject pin.)
3. When the shutter opens and the tray comes out remove the pin.
4. Pull the tray out horizontally.
   NOTE: To restore the tray, turn the unit on and press [OPEN/CLOSE].



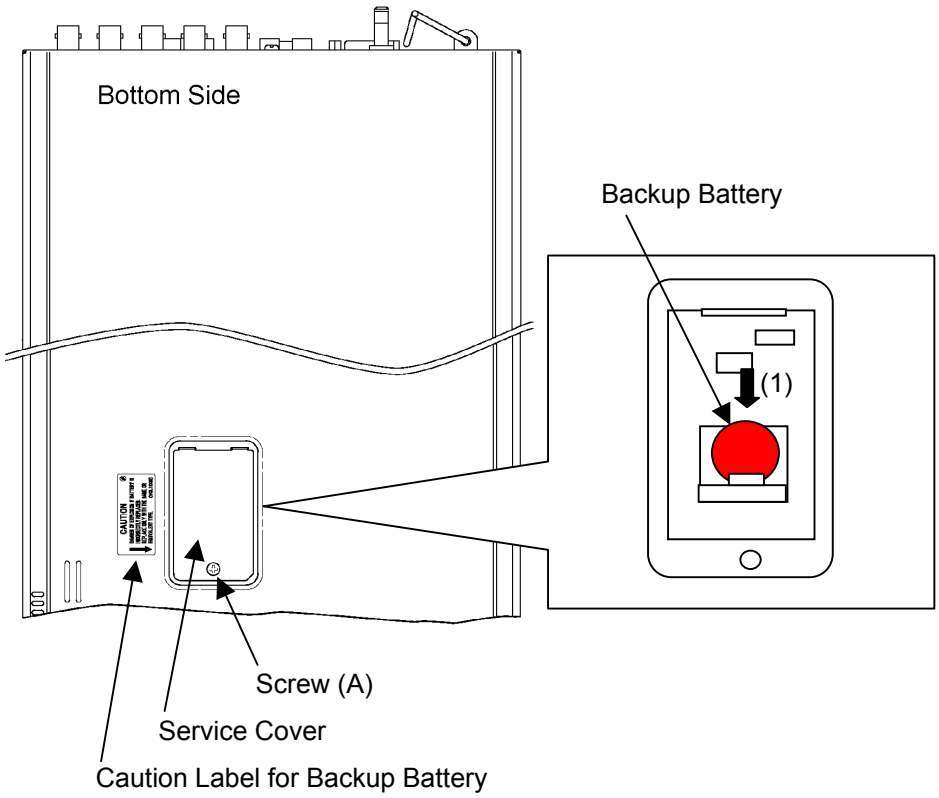


Eject pin
(Part number:JZS0484)

4. LITHIUM BATTERY

4-1. Replacement Procedure

1. Unscrew the screw (A) on the bottom cover so that the service cover can be lifted up.
2. While pushing the Lithum battery " Ref No.: U6651 / Part No.: CR2032 " in direction of arrow (1), pulling up it with the finger.
3. Replace the new battery in the direction (+down) and close the service cover in the reverse order.



NOTE:
The battery replacement must be completed within 3 seconds, if not, the timer setting may be reset. In this case, readjust the timer again.

NOTE:
The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacture's instructions.

5. SERVICE MENU

5-1. SERVICE MODE

The machine has a service mode which makes it possible to perform trouble diagnosis, signal control, and so on.

<Service mode setting >

1. While stop mode, press the “RETURN”,”OPEN/CLOSE”, and “STOP” button simultaneously for five seconds.(The display in the FL display disappears.)
2. About 20 seconds later, “SERVICE MODE” appears in the FL display and service mode boots up.
3. When setting the “MODE LOCK” switch to ON, the operation button performs as the ten key.
   (When setting the “MODE LOCK” switch to OFF, the operation button performs as the operation key.)
4. Executes service mode by inputting 2 digits of figures.

<Ten key correspondence button >

[REC]	[0]	▶	[6]
[SHIFT]	[1]	[SEARCH]	[7]
▼	[2]	▲	[8]
[RETURN]	[3]	[STATUS]	[9]
◀	[4]	[STOP]	[RETURN]
[ENTER]	[5]		

<Service mode cancelling >

1. Setting the “MODE LOCK” switch to OFF.
2. Press the “SHIFT and “stop” button simultaneously for five seconds. (The display in the FL display disappears.)
3. About 20 seconds later it reboots automatically by normal mode.

<Service mode >

Item		FL display	Key operation
Mode Name	**Description**		
Clear item	Clears the service mode to be executing	*SERVICE MODE*	[0][0] while in service mode
Error code display	FL display of the last error code.	*F00*	[0][1] while in service mode
ROM version display	The version of each microprocessor is displayed.	*REGION* ****** (NOT USED) *MAIN* ****** (DIGITAL ucom) *TIMER* ****** (NOT USED) *DRIVE* ****** (DVD DRIVE) *ROM* ****** (FRONT ucom)	[0][2] while in service mode
White picture output	White picture output from AV decoder White picture (Chroma : 100%) Switching enabled by sub command “I/P switching”	*WITH I*	[1][1] while in service mode
		WITH P	[0][0] while in white picture mode. *I-P toggle switched

Item		FL display	Key operation
Mode Name	Description		
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma : 100%) Switching enabled by sub command “I/P switching”	MAGE I	[1][2] while in service mode
		MAGE I	[1][4] while in white picture mode. *I-P toggle switched
RTSC return XP (A&V)	Disk recording of input Encoded and decoded for external output without playback. REC mode is XP.	EE2 I XP 48	[1][3] while in service mode
		EE2 PXP 48	[1][4] while in RTSC return XP mode *I-P toggle switched
		EE2 I XP 44	[2][4] while in RTSC return XP mode *48k-44.1k toggle switched
I/P switching	“Interlace” and ”Progressive” are switched. Initial setting is “Interlace”.	SERVICE I SERVICE P	[1][4] while in service mode
Audio mute	Check whether mute is applied normally by Front microprcessor.	MAIN MUTE	[2][1] while in service mode
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB)	AUDIO 48	[2][2] while in service mode
		AUDIO 44	[2][4] while in service mode
Laser use time display	To check laser use time of drive	LASER *****	[4][1] while in service mode
Drive last error display	Drive unit error code display.	** **** ** ** **	[4][2] while in service mode
Laser error count	The number of times that a laser error has occurred due to a defective disc or defective drive is counted and displayed.	LASERERR **	[4][3] while in service mode
Factors which cause drive error	The disc condition is displayed when an error occures.	INFO ******	[4][4] while in service mode
Disc manufacture ID	Display the manufacture’s ID for a disc on which a drive error has occurred.	**********	[4][5] while in service mode
Tray OPEN/CLOSE	The drive tray is opened and closed repeatedly	CYCLE ****	[9][1] while in service mode
Error code initialization	Initializes the error code which is memorized last at the memory.	ERROR INT	[9][8] while in service mode

5-2. HOUR METER Information Display

1. Press the “SHIFT”,”PAUSE”,”PLAY” and “FWD” button simultaneously and hold for five seconds.(The display in the FL display disappears.)
2. The display switches each hour information every time press “▼ “or” ▲ “ button.
3. When the “SHIFT”,”PAUSE”,”PLAY” and “FWD” button press again, it returns to normal mode.

FL display	Information	Description
TV	NTSC/PAL	Display the TV SYSTEM.
OPR	******H	Display the operation time.
SPIN	******H	Display the Spindle motor drive time.
LASER	******H	Display the laser irradiation time.
REC	******H	Display the recording time.
PLAY	******H	Display the Spindle playing time.
TRAY	******	Display the number of times opening and closing of the tray.
1394	MDVS/OLY	Display the 1394 command mode.

5-2-1. How to reset Hour Meter

By using EVR adjustment software, the time information except the operation time can be reset.
For the procedure to set the EVR adjustment software, refer to the item of the electrical adjustment.

Reset the following command by inputting it to the “TX Date” in the EVR adjustment software.

Input command **$LH:DRT**

6. SOFTWARE

6-1. Software Version Display

1. Press the ”SHIFT”,”STOP”,”REV” and ”PAUSE” button simultaneously for five seconds. Version display can be displayed.
2. The alternate indication of the version number of DIGITAL and FRONT microprocessor, while continuing to press the button.

Display	Name	Board
D ***-******	DIGITAL microprocessor	DIGITAL C.B.A.
F ***-******	FRONT microprocessor	MAIN C.B.A.

6-2. Version Upgrade Method

6-2-1. DIGITAL Microprocessor Version Upgrade

The microprocessor on the DIGITAL circuit board has built-in flash memory. Upgrade the software version according to the following procedure.

A. Preparation

CD-ROM for version upgrade: VFK

B. Version upgrade procedure

1. Turn on the power and insert the upgrade disk in the tray.
2. It starts upgrade processing automatically.
3. When the upgrading completes, because tray opens automatically, remove the CD-ROM for version upgrade.
4. **Press the “SHIFT” and ”STOP” button simultaneously for five seconds.** (Reboots automatically by normal mode.)

6-2-1. FRONT Microprocessor Version Upgrade

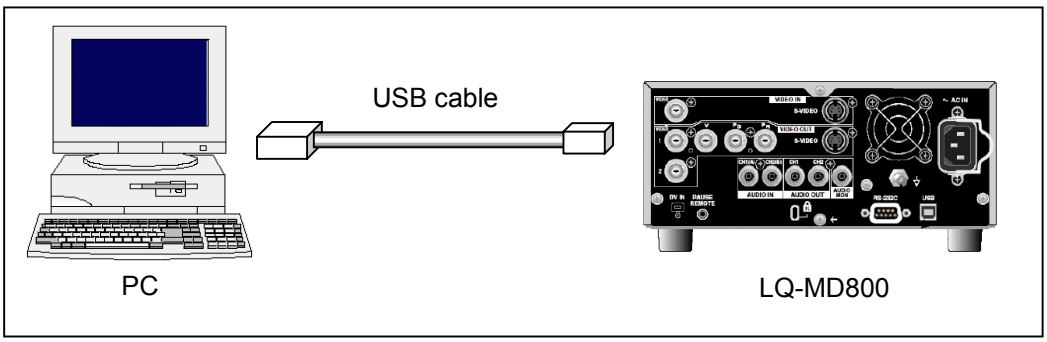
The microprocessor on the FRONT circuit board has built-in flash memory. Version upgrade the software according to the following procedure.

A. Preparation

ITEM	REMARK
USB cable	AB Type
Version Upgrade Software	USB Flash Writer GUI:Flash-over-USB Ver.2.03(1.69MB) (Please access to http://www.renesas.com/eng/products/mpumcu/16bit/m16c/m3a0665/0665e.htm)
File NAME	mof File (Included in “vvvsi xxxx” file).
Personal Computer	WINDOWS 98SE / ME / 2000 / XP

B. Connection

1. Connect the USB Cable between USB terminal on the LQ-MD800 and Personal Computer (USB port).
2. Remove the service cover and set the DIP SW6302-3 to on.
3. Turn on this model and Personal Computer (Windows mode).



C. Boot up the Ver. up Software and Ver. up Procedure

1. From the Start menu, choose Programs -- Renesas-Tools -- Flash-over-USB V. *. ** to start the FoUSB. When the FoUSB starts, the dialog box shown in Figure 6-1 appears.

Fig.6-1 Main window

2. When you press the “Select MCU” button, the window shown in Figure 6-2 is displayed. Select “M16c20 Series” – “M30245FC” and click “OK” button.

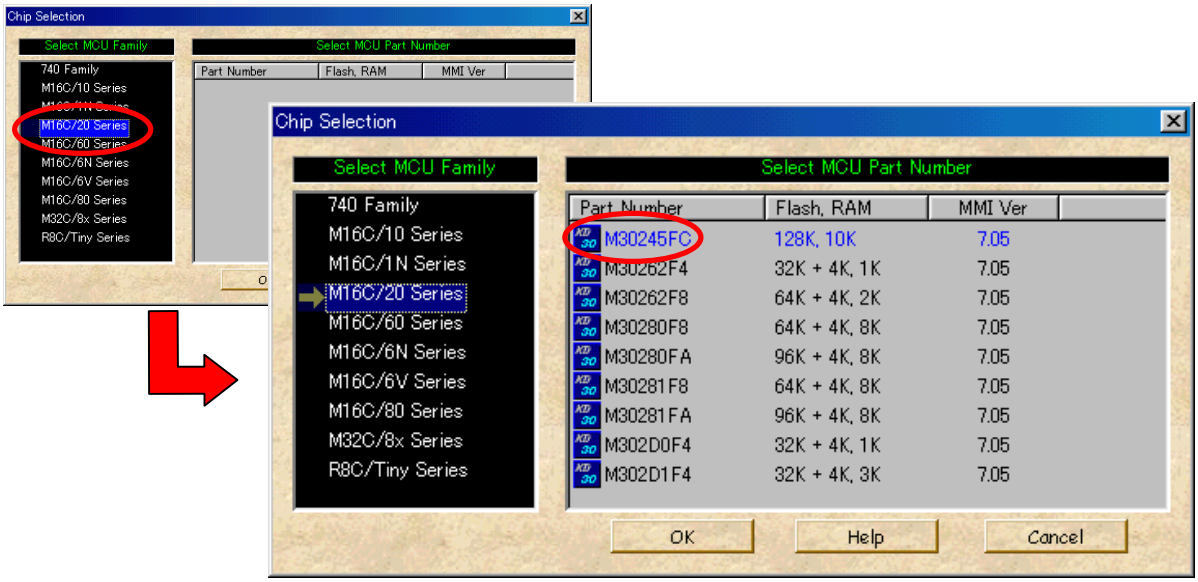


Fig.6-2

3. The ID cord is automatically read in, the message shown in Figure 6-3 is displayed. Press the “OK” button.

ID code
A file has been loaded that will create an ID Code of
FF FF FF FF FF FF FF
on the current attached device. Please make note of this!
OK

Fig.6-3

4. On the Main window, press the “OPEN2 button, and the window shown in Fig.6-4 will appear.
5. Select the floppy drive and then select the **“mot format file”** and then press the **“Open”** button.

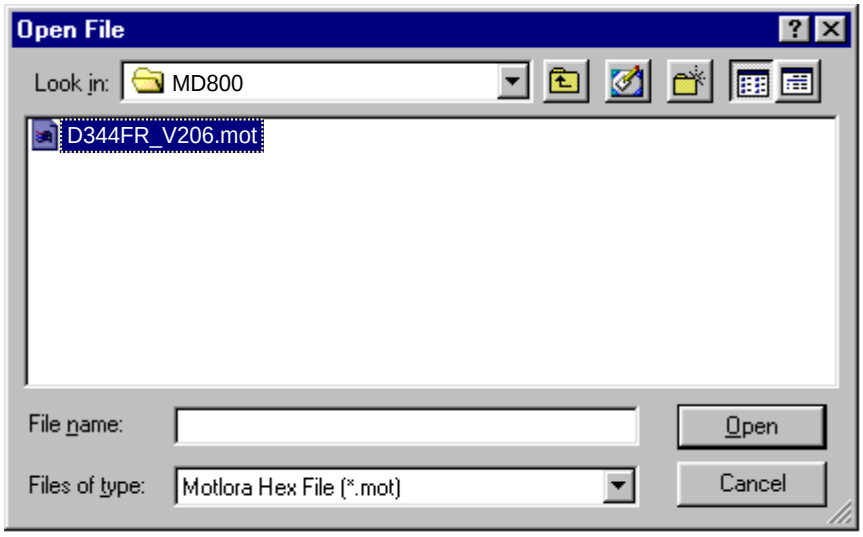


Fig.6-4

6. On the Main window, press the “OPEN button, press the “PROGRAM” button, and the window shown in Fig.6-5 will appear.
7. Select the “Erase -> Program -> Verify” and “Erase Only Needed Blocks” button and click the “Program” button, so program starts.

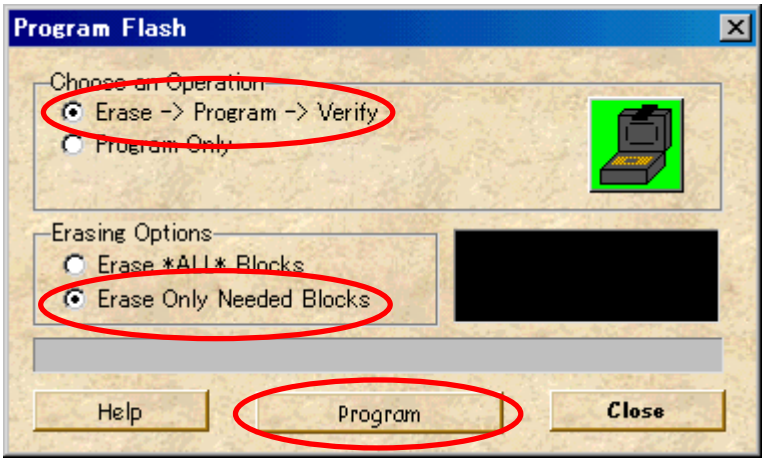


Fig.6-5

8. When the program has finished writing the software, the window shown in Fig.6-6 is displayed. So press the “OK” button.

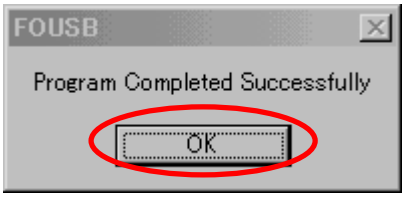
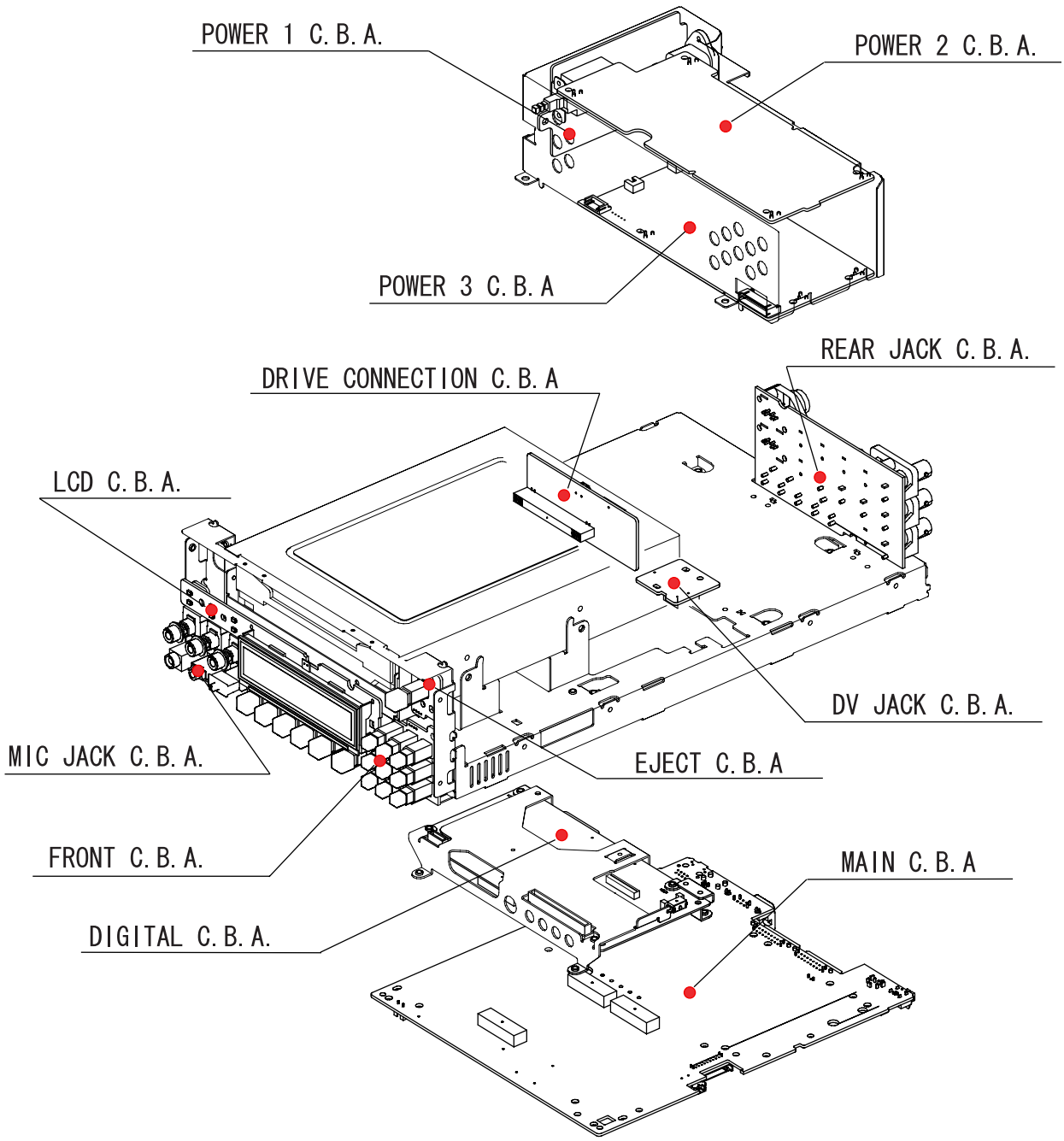


Fig.6-6

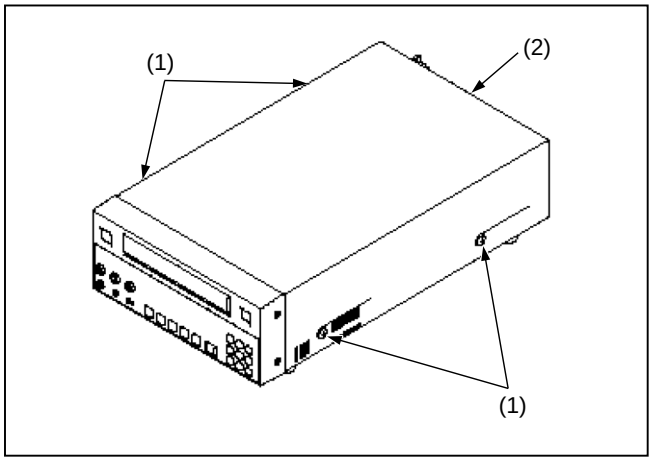
9. Turn the power off and set the DIP SW6302-3 to off

7. CIRCUIT BOARD LAYOUT



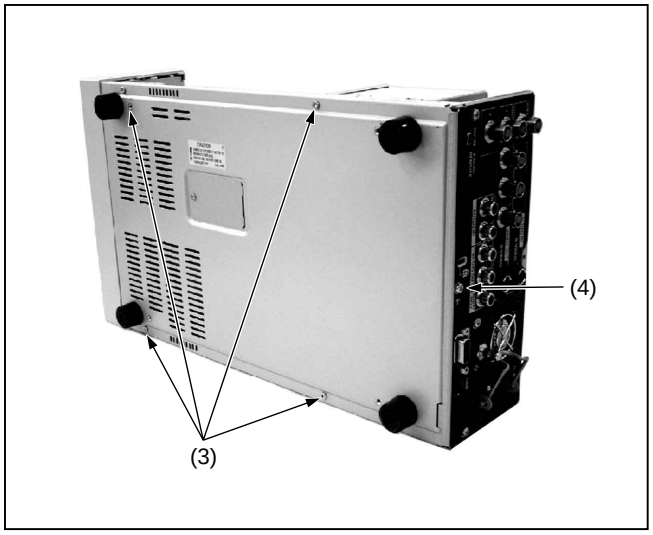
1. Removal of Top Panel

1. Unscrew the 5 screws (1) and (2).
2. Remove the top panel while lifting the rear part of it.



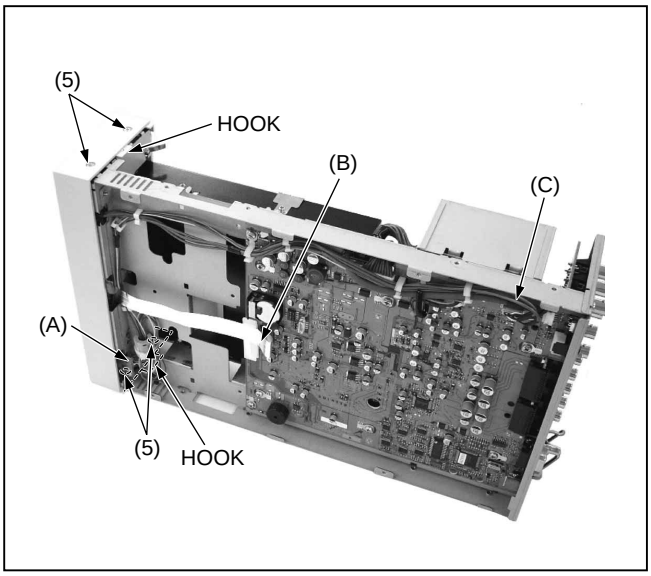
2. Removal of Bottom Case

1. Remove the top panel.
2. Unscrew the 5 screws (3) and (4).
3. Remove the bottom cover while lifting the front part of it.



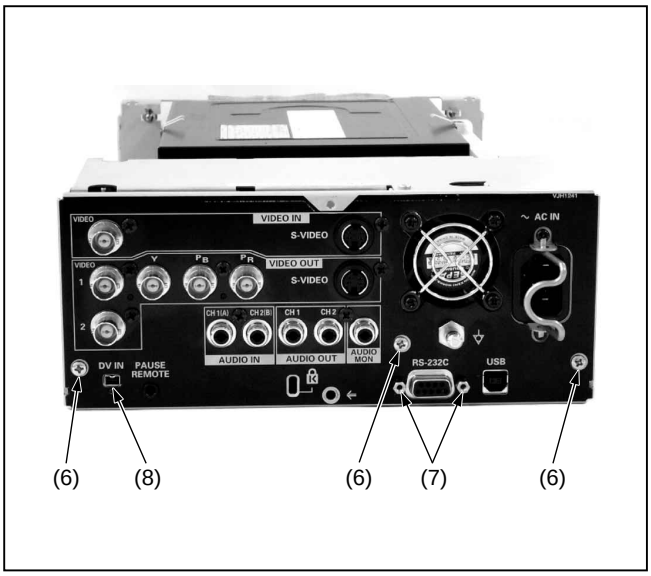
3. Removal of Front Panel

1. Remove the top panel and bottom case.
2. Unscrew the 4 screws (5)
3. Disconnect the 3 connectors (A),(B) and (C).
4. Remove the front panel while releasing the two hooks.



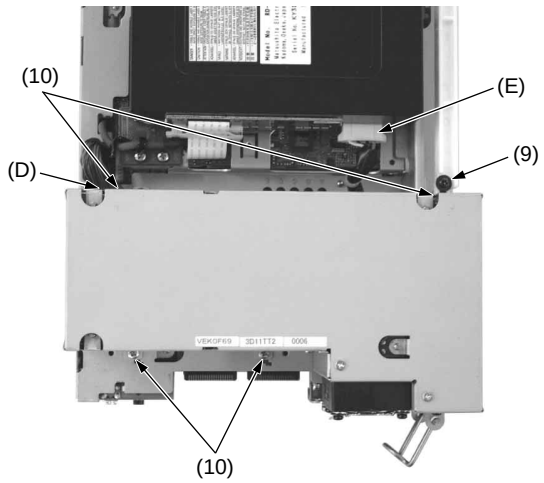
4. Removal of Rear jack plate

1. Remove the top panel and bottom case.
2. Unscrew the 6 screws (6), (7) and (8).
3. Remove the rear jack plate. Be careful because the MAIN P.C.Board and the connector in the rear jack P.C.Board are combined.



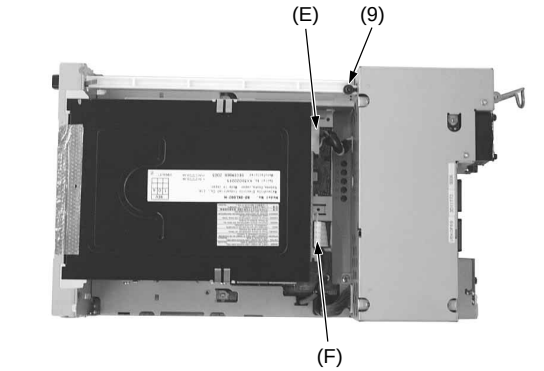
5. Removal of Power unit

1. Remove the top panel, bottom case and rear jack plate.
2. Unscrew a screw (9) and remove the power rod.
3. Unscrew the 4 screws (10).
4. Disconnect the 2connectors (D) and (E).
5. Remove the power unit.

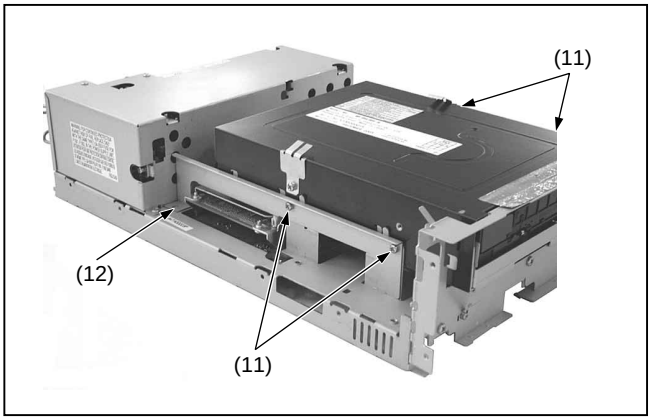


6. Removal of Drive unit

1. Remove the top panel, bottom case and front panel.
2. Loosen a screw (9) and remove the power rod.
3. Disconnect the 2 connectors (E) and (F).

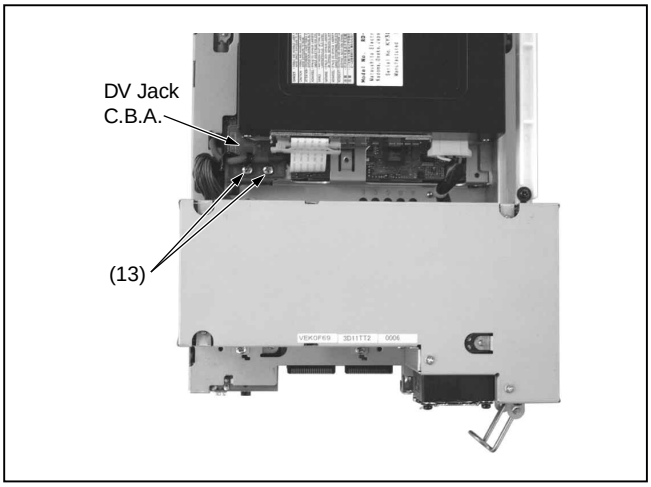


4. Unscrew the 5 screws (11) and (12) with support angle.
5. Peel off the shielding tape.
6. Remove the drive unit while lifting the rear part of it.

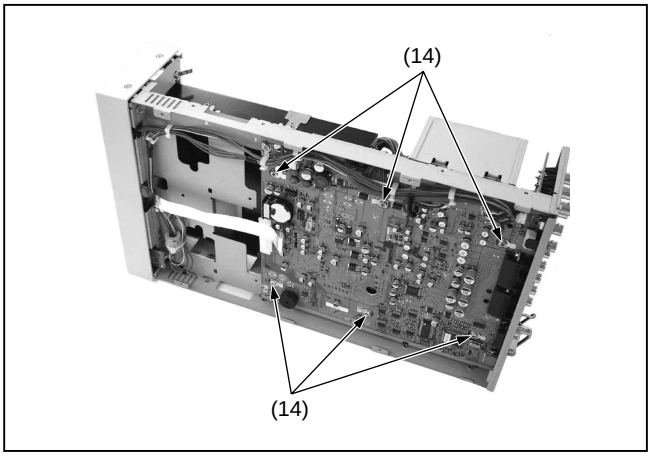


7. Removal of Main C.B.A. and Digital C.B.A..

1. Remove the top panel, bottom case and rear jack plate.
2. Unscrew the 2screws (13) and remove the DV jack C.B.A.



3. Unscrew the 6 screws (14) and remove the MAIN P.C.Board and DIGITAL P.C.Board.

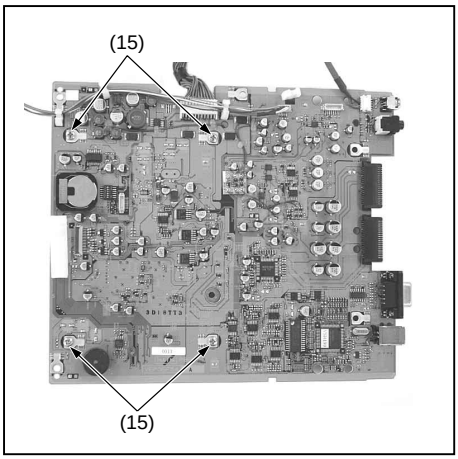


8. Removal of Digital P.C.Board

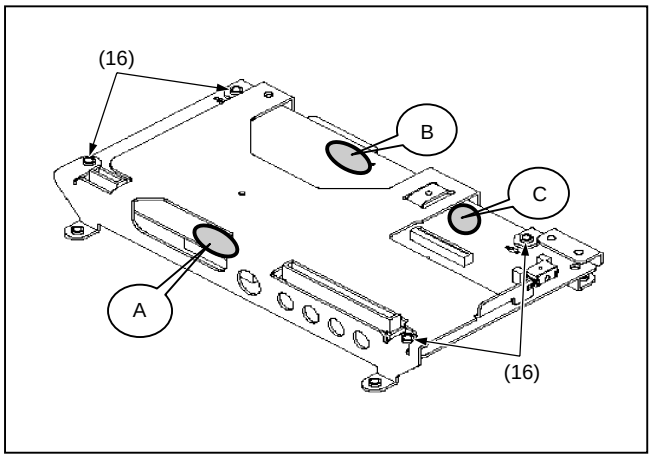
Use extreme care not to deform when removing or replacing the Digital P.C.Board.

<Disassembly procedure>

1. Remove the MAIN P.C.Board and DIGITAL P.C.Board.
2. Unscrew the 4 screws (15).



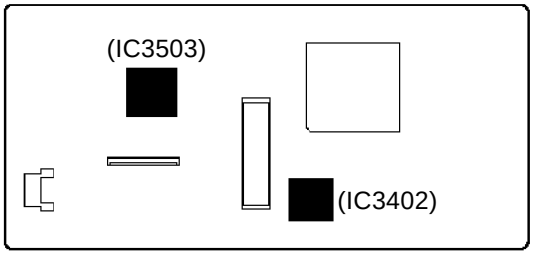
3. Lift the portion A on the Digital P.C.Board.
4. Lift the portion B and C on the Digital P.C.Board at the same time to remove.
5. Unscrew the 4 screws (16) and remove the angle.



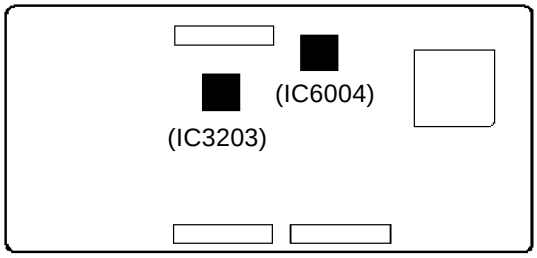
<Reassembly procedure>

1. Install the angle by 4 screws (16).
2. Press the portion A on the Digital P.C.Board.
3. Press the portion B and C on the Digital P.C.Board at the same time .

Note:
Do not touch the CSP(IC3402,IC3503,IC6004,IC3203) during servicing.



(FOIL SIDE)



(COMPONENT SIDE)